

# STATUS OF TRACE & TOXIC METALS IN INDIAN RIVERS

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**Cover & Back page:**

**River Ganga (Bhagirathi) at Gomukh-Gangotri and Uttarkashi respectively**  
*Photograph courtesy by Sh. Devendra Patel, AD, RDC-II Dte, CWC*

# STATUS OF TRACE & TOXIC METALS IN INDIAN RIVERS



**RIVER DATA COMPILATION-II DIRECTORATE  
CENTRAL WATER COMMISSION  
DEPARTMENT OF WATER RESOURCES, RIVER DEVELOPMENT & GANGA REJUVNATION  
MINISTRY OF JAL SHAKTI**

**रंजन कुमार सिन्हा**

अध्यक्ष

तथा पदेन सचिव, भारत सरकार

**RANJAN KUMAR SINHA**

**CHAIRMAN**

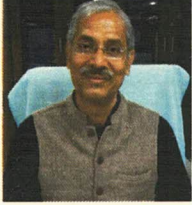
**& ex-officio Secretary**

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केन्द्रीय जल आयोग  
Government of India  
**Ministry of Jal Shakti**  
Deptt. of Water Resources,  
River Development and Ganga Rejuvenation,  
**Central Water Commission**



## FOREWORD

Water is the most essential element for life existence on earth. However, the quality of the world's water has been deteriorating with exponential growth in human population and its needs for industrial and agricultural activities. Central Water Commission (CWC) has been playing a vital role in water quality monitoring of river water over the past years and at present, is observing water quality at 764 key locations covering all major river basins of India.

Metal contamination in river water is increasingly becoming common in India. Presence of metals in river water in excesses may cause a significant threat to human health and ecological systems. The present report attempts to provide the water quality scenario of Indian rivers in respect of trace & toxic metals. Based on the analysis results of various metal elements, first, second and third edition of the Status of Trace and Toxic Metals in Indian Rivers was published by River Data Directorate, CWC, in May, 2014, April, 2018, and August, 2019 respectively. The revised and comprehensive edition of this report comprising the data of eight elements viz; Arsenic, Cadmium, Chromium, Copper, Iron, Lead, Nickel and Zinc for the period from Aug, 2018 to Dec, 2020. The report brings out the identified locations having these metal concentrations beyond the exceeding limits according to the BIS 10500:2012.

I appreciate the hard work done and efforts put in by Shri Reading Shimray, Chief Engineer (P&DO), CWC; Shri Pankaj Kumar Sharma, Director, RDC-II, CWC, Shri Rakesh Kumar Gupta, Dy. Director, RDC-II, CWC, Shri Devendra Kumar Patel, Assistant Director and Dr. Sakshi Sharma, SRA, RDC-II, CWC in bringing out fourth edition of this publication. I also express sincere thanks to all field Chief Engineers of CWC for making arrangements for collection, transportation and analysis of river water samples even during the nationwide lockdown. Efforts put in by Scientific officials of NRWQL, YBO, CWC for analysing river water samples are also appreciated.

I hope this publication will be useful for all stake holders and agencies for taking remedial measures for conservation of river water quality, protection, management, planning and policy making. It will also be useful for climate change & water security assessment and academic & scientific research purpose.

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(R. K. Sinha)



# **CONTRIBUTIONS**

## **GUIDANCE**

SHRI READING SHIMRAY, CHIEF ENGINEER (PLANNING & DEVELOPMENT), CWC, NEW DELHI

SHRI PANKAJ KUMAR SHARMA, DIRECTOR, RDC-II DIRECTORATE, CWC, NEW DELHI

SHRI RAKESH KUMAR GUPTA, DEPUTY DIRECTOR, RDC-II DIRECTORATE, CWC, NEW DELHI

SHRI DEVENDRA PATEL, ASSISTANT DIRECTOR, RDC-II DTE, CWC, NEW DELHI

## **PREPARED BY**

DR. SAKSHI SHARMA, SENIOR RESEARCH ASSISTANT, RDC-II DIRECTORATE, CWC, NEW DELHI

## **ANALYSIS**

SHRI RAJESH KUMAR, ASSISTANT RESEARCH OFFICER, NRWQL, YBO, CWC, NEW DELHI

SHRI NITISH KUMAR, ASSISTANT RESEARCH OFFICER, NRWQL, YBO, CWC, NEW DELHI

## **DATA CHECKING AND ITS VALIDATION**

ALL SCIENTIFIC STAFFS OF DIVISIONAL LABORATORIES OF CENTRAL WATER COMMISSION. DATA AND RESULTS PRESENTED DURING TECHNICAL DISCUSSION ON 24 NOV, 2021.

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## Abbreviations

µg/L	Microgram per Liter
mg/L	Milligram per Liter
AAS	Atomic Absorption Spectrophotometer
APHA	American Public Health Association
As	Arsenic
BCM	Billion Cubic meter
BIS	Bureau of Indian Standards
Cd	Cadmium
Cr	Chromium
Cu	Copper
Fe	Iron
Hg	Mercury
ICMR	Indian Council of Medical Research
IUPAC	International Union of Pure and Applied Chemistry
kms	kilo meters
M. ha	Million hectres
MCL	Maximum Contaminant Level
mm	milli meter
MSL	Mean Sea Level
Ni	Nickel
NRWQL	National River Water Quality Laboratory
Pb	Lead
ppb	Parts Per Billion
ppm	Parts Per Million
TEL	Tetra Ethyl Lead
USEPA	United States Environmental Protection Agency
WHO	World Health Organisation
WQ	Water Quality
Zn	Zinc

## EXECUTIVE SUMMARY

Central Water Commission (CWC) is monitoring river water quality at its 652 key hydrological observation stations covering all the important river basins of India. Also, water quality samples are being collected from 112 water quality sampling stations. Heavy metals are one of the most widespread causes of pollution in water. Further, increasing levels of these metals concentration in the environment is causing serious concern in public opinion owing to their toxicity. To observe the current status of toxic metal content of Indian Rivers, 3113 no. of river water samples from 688 water quality monitoring stations spread over major river basins in India were collected during Aug, 2018 to Dec, 2020. These samples were analyzed for **Arsenic, Cadmium, Chromium, Copper, Nickel, Lead, Iron and Zinc** at National River Water Quality Laboratory, Central Water Commission, New Delhi. Toxic metal wise summary of the results is as under:

**Arsenic (As)** BIS (Bureau of Indian Standard) 10500:2012) has recommended an acceptable limit of 10 µg/L of arsenic in drinking water. Total 2834 numbers of water samples from 688 water quality

As Permissible Limit as BIS 10500: 2012	10 µg/L
No of Samples Tested	2834
No. of Samples Exceed the Limit	8
No. of Stations	8

monitoring stations were collected and analyzed for arsenic content in Indian Rivers in the period Aug, 2018 to Dec, 2020. Out of 2834 water samples, 8 no. of samples of 8 water quality stations found arsenic concentrations beyond the acceptable limit. The arsenic concentration varies from 0.00 to 13.33 µg/L. Maximum arsenic concentration (13.33 µg/L) was observed at Porakudi water quality monitoring station on Arasalar River (a tributary of Cauvery River) during Dec, 2019.

**Cadmium (Cd)** BIS (Bureau of Indian Standard) 10500:2012) has recommended an acceptable limit of 3 µg/L of cadmium in drinking water. Total 3113 numbers of water samples were analysed

Cd Permissible Limit as BIS 10500: 2012	3 µg/L
No of Samples Tested	3113
No. of Samples Exceed the Limit	11
No. of Stations	11

and collected from 688 water quality monitoring stations for cadmium content in Indian Rivers during the period Aug, 2018 to Dec, 2020. Out of 3113 water samples, 11 no. of samples of 11 water quality stations found cadmium concentrations beyond the acceptable limit. The cadmium concentration varies from 0.00 to 12.57 µg/L. Maximum cadmium concentration (12.57 µg/L) was observed at Todarpur water quality monitoring station on Sukheta River during Dec, 2020.

**Chromium (Cr)** BIS (Bureau of Indian Standard) 10500:2012) has recommended an acceptable limit of 50 µg/L of chromium in drinking water. Total 3106 numbers of water samples were analysed and collected

Cr Permissible Limit as BIS 10500: 2012	50 µg/L
No of Samples Tested	3106
No. of Samples Exceed the Limit	50
No. of Stations	46

from 688 water quality monitoring stations for Chromium content in Indian Rivers during the period Aug, 2018 to Dec, 2020. Out of 3106 water samples, 50 no. of samples of 46 water quality stations found Chromium concentrations beyond the acceptable limit. The Chromium concentration varies from 0.00 to 180.47 µg/L. Maximum Chromium concentration (180.47 µg/L) was observed at M.B.P.L. water quality monitoring station on Hasdeo River during Dec, 2019.

**Copper (Cu)** BIS (Bureau of Indian Standard) 10500:2012) has recommended an acceptable limit of 50 µg/L of copper in drinking water. 3107 water samples from 688 water quality stations were collected

and analyzed for copper content from Aug, 2018 to Dec, 2020. Out of 3107 water samples, 17 samples of 17 water quality stations were found to contain copper concentrations above the acceptable limits. The Copper concentration varies from 0.00 to 132.64 µg/L. Maximum Copper concentration (132.64 µg/L) was observed at Badlapur water quality monitoring station on Ulhas River during Dec, 2019.

Cu Permissible Limit as BIS 10500: 2012	50 µg/L
<b>No of Samples Tested</b>	3107
<b>No. of Samples Exceed the Limit</b>	17
<b>No. of Stations</b>	17

**Iron (Fe)** BIS has recommended the acceptable limit of 0.3 mg/L (300 µg/L) for Iron. 3113 water samples from 688 water quality stations were collected and analyzed for Iron content from Aug, 2018

to Dec, 2020. Out of 3113 water samples, 756 samples of 414 water quality stations were found to contain Iron concentrations above the acceptable limits. The Iron concentration varies from 0.00 to 11.24 mg/L.

Fe Permissible Limit as BIS 10500: 2012	300 µg/L
<b>No of Samples Tested</b>	3113
<b>No. of Samples Exceed the Limit</b>	756
<b>No. of Stations</b>	414

**Lead (Pb)** Bureau of Indian Standard (10500:2012) has recommended that the acceptable limit for lead is 0.01 mg/L or 10 µg/L in drinking water. 3111 water samples

from 688 water quality stations were collected and analyzed for Lead content from Aug, 2018 to Dec, 2020. Out of 3111 water samples, 36 samples of 34 water quality stations were found to contain Lead concentrations above the acceptable limits. The Lead concentration varies from 0.00 to 67.55 µg/L. Maximum Lead concentration (67.55 µg/L) was observed at Chopan water quality monitoring station on Sone River during May, 2020

Pb Permissible Limit as BIS 10500: 2012	10 µg/L
<b>No of Samples Tested</b>	3111
<b>No. of Samples Exceed the Limit</b>	36
<b>No. of Stations</b>	34

**Nickel (Ni)** BIS (Bureau of Indian Standard) 10500:2012) has recommended an acceptable limit of 20 µg/L of nickel in drinking water. 3111 water samples from 688 water quality

stations were collected and analyzed for Nickel content from Aug, 2018 to Dec, 2020. Out of 3111 water samples, 265 samples of 199 water quality stations were found to contain Nickel concentrations above the acceptable limits. The Nickel concentration varies from 0.00 to 242.90 µg/L. Maximum Nickel concentration (242.90 µg/L) was observed at Elunuthimangalam water quality monitoring station on Noyyal River during Dec, 2020.

Ni Permissible Limit as BIS 10500: 2012	20 µg/L
<b>No of Samples Tested</b>	3099
<b>No. of Samples Exceed the Limit</b>	265
<b>No. of Stations</b>	199

**Zinc (Zn)** BIS (Bureau of Indian Standard) 10500:2012) has recommended acceptable limit of 5 mg/L (5000 µg/L) of Zinc in drinking water.

Total 3113 water samples from the 688

water quality monitoring stations were analyzed during the reporting period. Maximum Zinc concentration (1.70 mg/L) was observed at Belkheri water quality monitoring station on Sher River (Tributary of Narmada River) during May, 2020. In the study area, all the river water quality stations are reported to have zinc concentration well within the acceptable and permissible limits of Bureau of Indian Standards (BIS) and no toxicity of Zinc in the River waters is observed.

Zn Permissible Limit as BIS 10500: 2012	5000 µg/L
No of Samples Tested	3113
No. of Samples Exceed the Limit	0
No. of Stations	0

In conclusion, out of 688 River water quality stations monitored, water samples collected at 180 water quality stations are found within the permissible limit for all purposes. While 187 stations were obtained beyond the permissible limit due to presence of two or more toxic metals (As/Cd/Cr/Cu/Pb/Ni/Fe).

## 1. INTRODUCTION

The environmental pollution is caused by a variety of pollutants in water, air and soil. One of the major concerned pollutants of living environment is “Heavy Metals” (metal and metalloid element having density from 3.5 to 7 g/cm<sup>3</sup>). Nowadays, the word ‘heavy metal’ has been used to describe metallic chemical elements and metalloids which are toxic to the environment and humans. Some metalloids and also lighter metals such as selenium, arsenic and aluminium are toxic. They have been termed heavy metals while some heavy metals are typically not toxic such as the element gold.

Beryllium (Be), aluminium (Al), chromium (Cr), manganese (Mn), iron (Fe), cobalt (Co), nickel (Ni), copper (Cu), zinc (Zn), arsenic (As), selenium (Se), molybdenum (Mo), silver (Ag), cadmium (Ca), tin (Sn), antimony (Sb), barium (Ba), mercury (Hg), thallium (Tl) and lead (Pb) are the common toxic ‘heavy metals’ which are of public health concerns as per World Health Organization (WHO).

Over the last few decades, the concentration of these heavy metals in river water and sediments has increased rapidly which may eventually affect the grains and vegetables grown with contaminated soil and water. This may pose a serious threat to humans and the environment because of heavy metal’s toxicity, non-biodegradability and bioaccumulation.

### Sources of Metal Pollution

These heavy metals are found naturally on the Earth's crust since the Earth's formation. Natural causes can increase heavy metal pollution such as volcanic activity, metal corrosion, metal evaporation from soil and water and sediment re-suspension, soil erosion, geological weathering. Due to the astounding increase of the use of heavy metals, it has resulted in an imminent surge of metallic substances in both the terrestrial environment and the aquatic environment. Heavy metal pollution has emerged due to anthropogenic activity such as mining the metal, smelting, foundries, and other industries that are metal-based, heavy metals used in pesticides in the agricultural field, leaching of metals from different sources such as landfills, waste dumps, excretion, livestock and chicken manure, runoffs, automobiles and roadworks.

Toxicity of heavy metals depends on a lot of factors such as which metal is present, the nature of the metal, the biological role of the metal, the organism exposed and the period of the organism’s life when it is exposed. If one organism is affected, this will affect all the food chain. Since humans are usually the last of the food chain, this will affect us more as we would have accumulated more heavy metal as the concentration increases along the food chain. Both industrial and domestic wastes usually are expelled into the sewage system. Heavy metals are found in high concentrations in raw sewage, and these are not degraded in the sewage treatment. They are removed either in the final effluent or else in the sludge produced. The properties and contaminants of the sewage that enters the water depend on the treatment of the sewage. Several controls have been set up due to the problems caused by sewage elimination into the rivers and seas without being treated. Stringent regulations and better technology need to be placed, to decrease the amounts of pollutants that are thrown in the waters.

## **Metal Pollution from Mining and Processing Ores**

Digging a mine, removing ore from it, and extraction and processing of the minerals sometimes cause environmental damage. For example, mining operations can destroy habitat, farmland, and homes; produce soil erosion; and pollute waterways via toxic drainage. Emission of toxic materials from smelters such as arsenic (As), selenium (Se), lead (Pb), cadmium (Cd), and sulfur oxides, among others — causes serious air pollution. Surface mining produces about eight times as much waste as underground mining, but deep mining can produce even worse problems, such as earthquakes. When underground mines cave in, not only do they kill miners but they also cause subsidence of the surface, forming holes into which roads and houses may collapse. As near-surface minerals are depleted, miners have to dig deeper to find the mineral. A study by the National Academy of Science predicted that copper (Cu) mining operations in the year 2000 would produce three times as much waste per ton of copper output compared to the same activities in 1978.

Exposure of pyrite (FeS) and other sulfide minerals to atmospheric oxygen and moisture results in oxidation of this mineral and the formation of acid-mine drainage water. The release of acid-mine drainage from active and abandoned mines, particularly coal mines, has been widely associated with serious water quality problems. It dissolves toxic elements from tailings and soils and carries them into waterways and even groundwater. Water quality problems involve relatively high levels of metals such as iron (Fe), manganese (Mn), zinc (Zn), copper (Cu), nickel (Ni) and cobalt (Co).

Ore processing, smelting, and refining operations can cause deposition of large quantities of trace metals such as lead (Pb), zinc (Zn), copper (Cu), arsenic (As) and silver (Ag), into drainage basins or direct discharge into aquatic environments.

## **Metal Pollution from Domestic Wastewater Effluents**

Domestic wastewater effluents contain large amounts of trace metals from metabolic waste products, corrosion of water pipes - copper (Cu), lead (Pb), zinc (Zn), and cadmium (Cd), and household products, such as detergents - iron (Fe), manganese (Mn), chromium (Cr), nickel (Ni), cobalt (Co), zinc (Zn), boron (B), and arsenic (As). Wastewater treatment usually removes less than 50% of the metal content of the influent, leaving the effluent with significant metal loading. The sludge resulting from wastewater treatment is also rich in metals. Domestic wastewater and the dumping of domestic and industrial sludge are the major artificial sources of cadmium (Cd), chromium (Cr), copper (Cu), iron (Fe), lead (Pb), and mercury (Hg) pollution.

## **Metal Pollution from Stormwater Runoff**

Stormwater runoff from urbanized areas is a significant source of metal pollution in the receiving water streams. Metal composition of urban runoff water is dependent on many factors, such as city planning, traffic, road construction, land use, and the physical characteristics and climatology of the watershed.

## Metal Pollution from Industrial Wastes and Discharges

In general, the concentration of heavy metals in industrial effluents is much greater than their prescribed permissible limits in the aqueous solutions, so there is an urgent need to treat the metal containing effluents before they are discharged into the aquatic bodies. Metals and their concentrations in industrial waste discharges specifically depend on the profile of that particular industry.

*Table 1: The anthropogenic sources of heavy metals in the environment*

S. No.	Pollutant	Major sources
1.	<b>Arsenic</b>	Arsenic containing fungicides, pesticides and herbicides, metal smelters, byproducts of mining activities, chemical wastes
2	<b>Cadmium</b>	Cadmium producing industries, electroplating, welding. Byproducts from refining of Pb, Zn and Cu, fertilizer industry, pesticide manufacturers, cadmium–nickel batteries, nuclear fission plants.
3	<b>Chromium</b>	Metallurgical and chemical industries, processes using chromate compounds, cement and asbestos units
4	<b>Copper</b>	Iron and steel industry, fertilizer industry, burning of wood, discharge of mine tailings, disposal of fly ash, disposal of municipal and industrial wastes are the sources of copper in the atmosphere
5	<b>Iron</b>	Cast Iron, Wrought Iron, steel, alloys, construction, transportation, machine manufacturing
6	<b>Lead</b>	Automobile emissions, lead smelters, burning of coal and oil, lead arsenate pesticides, smoking, mining and plumbing
7	<b>Mercury</b>	Mining and refining of mercury, organic mercurial's used in pesticides, laboratories using mercury
8	<b>Nickel</b>	Metallurgical industries using nickel, combustion of fuels containing nickel additives, burning of coal and oil, electroplating units using nickel salts, incineration of nickel containing substances
9	<b>Zinc</b>	Zinc refineries, galvanizing processes, brass manufacture, metal plating, plumbing

### **Sanitary Landfills**

The metal contents and average concentrations of sanitary-landfill leachates are Cu (5 ppm), Zn (50 ppm), Pb (0.3 ppm), and Hg (60 ppb).

### **Agricultural Runoff**

The metal content of agricultural runoff originates in sediments and soils saturated by animal and plant residues, fertilizers, specific herbicides and fungicides, and use of sewage and sludge as plant nutrients.

### **Fossil Fuel Combustion**

Fossil fuel combustion is a major source of airborne metal contamination of natural waters.



## 2. REVIEW OF TRACE & TOXIC METALS

Heavy metals are one of the most widespread causes of pollution both in water and the soil; Further, increasing levels of these metals concentration in the environment is causing serious concern in public opinion owing to the toxicity shown by most of them. Heavy metals are usually defined as metals with high atomic number, atomic weight and a density greater than  $5.0 \text{ g/cm}^3$ , but in the literature it is possible to find so many different definitions. Recently, International Union of Pure and Applied Chemistry (IUPAC) defined the term “heavy metal” as a confusing and misleading one. Generally speaking, metals are natural components of the Earth’s crust and some of them (e.g. copper, selenium, and zinc) are essential as trace elements to maintain the metabolism of the human body although at higher concentrations, they may show toxic effects. Many other metals (e.g. mercury, cadmium, lead, etc.) have direct toxic effects on human health. Owing to their chemical characteristics, metals remain in the environment, in many cases only changing from one chemical state to another one and eventually accumulating in the food chain. These pollutants enter the environment through a variety of human activities such as mining, refining and electroplating industries. The effluents produced by these industries contain a variety of heavy metals such as cadmium, copper, chromium, nickel, lead and zinc, subsequent release of these effluents into water bodies may significantly contribute to the increment in loads of toxic heavy metals in aquatic environments. Because of their high-water solubility, heavy metals can be easily absorbed by living organisms and, due to their mobility in natural water ecosystems and their toxicity to living forms, have been ranked as major inorganic contaminants in surface and ground waters. Even if they may be present in dilute, almost undetectable quantities, their recalcitrance to degradation and consequent persistence in water bodies imply that, through natural processes such as bio-magnification, their concentration may become elevated to such an extent that they begin exhibiting toxic effects. Out of the 35 metals considered dangerous for human health, 23 have been defined as heavy metals: antimony, arsenic, bismuth, cadmium, cerium, chromium, cobalt, copper, gallium, gold, iron, lead, manganese, mercury, nickel, platinum, silver, tellurium, thallium, tin, uranium, vanadium, and zinc. However, the major lethal effects to human health caused by these heavy metals are associated with exposure to lead, cadmium, mercury and arsenic (this element is a metalloid but it is usually defined as a heavy metal). Large amounts of any of these metals may cause acute or chronic toxicity (poisoning), resulting in damaged or reduced mental and central nervous functions, modify blood composition, damage the lung, kidney, liver, and other vital organs.

Long-term exposure to the above-mentioned heavy metals may result in slowly progressing physical, muscular, and neurological degenerative processes that mimic Alzheimer’s disease, Parkinson’s disease, muscular dystrophy and multiple sclerosis.

Allergies are not uncommon and repeated long-term contact with some metals or their compounds may even cause cancer. Heavy metals may enter the human body through food, water and air, or it may be absorbed through the skin when they enter into contact with humans in agriculture and in manufacturing, pharmaceutical, industrial or residential settings. Although several adverse health effects of heavy metals have been known since a long time, exposure to these metals is continuing and even increasing in some parts of the world. Thus, the control of heavy metal dumpings and the removal of toxic heavy metals from waters has become a challenge for the twenty-first century.

### 3. METAL TOXICITY:

Important issues related to selected toxic metals like occurrences in nature, sources of water pollution, toxic effects etc. are described here under:

#### Toxicity of Arsenic

Arsenic is ubiquitous and ranks 20<sup>th</sup> in natural abundance, comprising about 0.00005% of the earth's crust, 14<sup>th</sup> in the seawater, and 12<sup>th</sup> in the human body (Mandal and Suzuki, 2002). Arsenic occurs in the environment in rocks, soil, water, air and in biota.

The element occurs in the environment in different oxidation states e.g. As as As(V), As(III), As(0) and As(-III). The chemical forms and oxidation states of arsenic are more important as regards to toxicity. Generally, inorganic forms are more toxic and mobile than organo-arsenic species, while arsenite is considered to be more toxic than arsenate. It has been reported that As(III) is 4 to 10 times more soluble in water than As(V) (Squibb and Fowler 1983; Xu et al. 1988; Lambe and Hill 1996; US EPA, 2002). Moreover, it has been found that As(III) is 10 times more toxic than As(V) and 70 times more toxic than Mono Methyl Arsonate {MMA(V)} and Di Methyl Arsinates {DMA(V)}. However, the trivalent methylated arsenic species, i.e., MMA(III) and DMA(III) have been found to be more toxic than inorganic arsenic because they are more efficient at causing DNA breakdown (Styblo et al. 2000; Dopp et al. 2004). Arsenic enters the human body through ingestion, inhalation or skin absorption. Most ingested and inhaled arsenic is well absorbed through the gastrointestinal tract and lung into the bloodstream.

People drinking arsenic contaminated water generally show arsenical skin lesions, which are a late manifestation of arsenic toxicity. Long term exposure to arsenic contaminated water may lead to various diseases such as conjunctivitis, hyperkeratosis, hyperpigmentation, cardiovascular diseases, disturbance in the peripheral vascular and nervous systems, skin cancer, gangrene, leucomelosis, non pitting swelling, hepatomegaly and splenomegaly (Kiping, 1977; WHO, 2001; Pershagen, 1983). Chronic symptoms caused by a long exposure to As are unspecific (weight loss, chronic weakness) but a long exposure provokes arsenicosis, cardiovascular diseases, skin lesions among other organ function disorders (Bissen and Frimmel 2003). Arsenicosis is a chronic illness resulting from drinking water with high As level over a long period of time (Kapaj et al. 2006). The effects on the lungs, uterus, genitourinary tract and other parts of the body have been detected in the advance stages of arsenic toxicity. Besides, high concentrations of arsenic in drinking water also result in an increase in stillbirths and spontaneous abortions (Csanady and Straub, 1995).

#### Toxicity of Cadmium

Cadmium is an element that occurs naturally in the earth's crust. It is uniformly distributed in the Earth's crust, where it is generally estimated to be present at an average concentration of between 0.10 and 0.50 µg/L. Cadmium occurs in nature in the form of various inorganic compounds and as complexes with naturally occurring chelating agents; organo-cadmium compounds are extremely unstable and have not been detected in the natural environment. Cadmium is produced during extraction of zinc and is used in plating industry, pigments, in manufacture of plastic material, batteries and alloys. The water is contaminated with cadmium by industrial discharge, leaches from land filled area. Drinking water is generally contaminated with galvanized iron pipe, plated plumbing fitting of the water distribution pipes.

Cadmium ranks next to mercury in its toxicity. Exposure at low levels usually does not produce immediate health effects, but may cause severe health problems over long periods. The gastrointestinal tract is the major route of Cd uptake in both humans and animals. Cadmium is toxic to humans, animals, micro-organisms and plants, however only a small amount of cadmium intake is absorbed by the body and will be stored mainly in bones, liver and, in case of chronic exposure, in kidneys. In the last few years there have been some evidences that relatively low cadmium exposure may give rise skeletal damage due to low bone mineral density (osteoporosis) and fractures. The toxicity of the metal lies in that, after absorption, it accumulates in soft tissues. Animal tests have shown that cadmium may be a risk factor for cardiovascular disease (Jarup, 2003). For acute exposure, absorbed cadmium can cause symptoms such as salivation, difficulty in breathing, nausea, vomiting, a pain, anemia, kidney failure, and diarrhoea. Inhalation of cadmium dust or smoke may cause dryness of the throat, headache, chest pain, coughing, increased uneasiness and bronchial complications (Lu et al., 2007). The adverse health effects caused by ingestion or inhalation of Cd include renal tubular dysfunction due to high urinary Cd excretion, high blood pressure, lung damage and lung cancer.

Furthermore, cadmium accumulation in animals and humans occurs throughout their life spans. The sites of greatest cadmium accumulation are the liver and kidney. After inhalation or absorption from the gastrointestinal, cadmium is concentrated in the kidney, where its half-life may exceed 10 to 20 years. One of the most widely known toxic effects manifested by Cd poisoning is nephro-toxicity. Adverse renal effects are more commonly seen with exposure to low levels of Cd. The effects are manifested by excretion of low-molecular-weight plasma proteins, such as  $\beta$ 2-microglobulin and retinol-binding protein (RBP). -The widely reported Cd poisoning *itai-itai byo* episode occurred in Japan after World War II. In Japan cadmium from mining and refinery factories polluted Jinzo River water which was used for irrigation purpose. The rice grown on such cadmium accumulated fields, which the humans consumed through water and food chain affected by osteomalacia and skeletal deformation. There was sever pain in body and joints and the people cried *ITAI –ITAI* (it hurts-it hurts).

### **Toxicity of Chromium**

Chromium can exist in valencies from -2 to 6 but it present in the environment mainly as trivalent or hexavalent state. Trivalent chromium (Cr [III]) is the most common naturally occurring state; most soils and rocks contain small amounts of chromic oxide ( $\text{Cr}_2\text{O}_3$ ). Hexavalent chromium (Cr[VI]) occurs frequently in nature as chromates ( $\text{CrO}_4^{2-}$ ) and dichromates ( $\text{Cr}_2\text{O}_7^{2-}$ ) which are generally obtained from industrial and domestic emissions. Chromium is considered as an essential nutrient and a health hazard because Cr exists in more than one oxidation state. Specifically, Cr in oxidation state +6, written as Cr(VI), is considered harmful even in small intake quantity (dose) whereas Cr in oxidation state +3, written as Cr(III), is considered essential for good health in moderate intake. Chromium (III) is an essential nutrient for humans and shortages may cause heart conditions, disruptions of metabolisms and diabetes. Trivalent chromium is necessary for the synthesis of fat from glucose and also for the oxidation of fat to carbon dioxide. But the uptake of too much chromium (III) can cause health effects as well, for instance skin rashes.

People who smoke tobacco also have a higher chance of exposure to chromium. Chromium (VI) is known to cause various health effects. When it is a compound in leather products, it can cause allergic reactions, such as skin rash. After breathing in, chromium (VI) can cause nose irritations and nosebleeds. Other health problems that are caused by chromium (VI) are:

- Skin rashes

- Upset stomachs and ulcers
- Respiratory problems
- Weakened immune systems
- Kidney and liver damage
- Alteration of genetic material
- Lung cancer
- Death

The health hazards associated with exposure to chromium are dependent on its oxidation state. The metal form (chromium as it exists in this product) is of low toxicity and the hexavalent form is toxic. Adverse effects of the hexavalent form on the skin may include ulcerations, dermatitis, and allergic skin reactions. Inhalation of hexavalent chromium compounds can result in ulceration and perforation of the mucous membranes of the nasal septum, irritation of the pharynx and larynx, asthmatic bronchitis, bronchospasms and edema. Respiratory symptoms may include coughing and wheezing, shortness of breath and nasal itch.

Hexavalent chromium is toxic to plants and animals. It causes yellowing of leaves of wheat and paddy. Maximum permissible limit of chromium in drinking water as recommended by WHO is 0.05 mg/L.

### **Toxicity of Copper**

Copper is an essential micronutrient (Underwood 1977; Goyer 1991). The Food and Nutrition Board (FNB) recommends dietary copper intake for adults of 1.53 mg/day (NRC, 1989). Three major valence states: copper metal Cu(0), Cu(I) and Cu(II). Copper is commonly found in ores. Copper occurs in nature as the metal and in minerals, most commonly cuprite (Cu<sub>2</sub>O) and malachite (Cu<sub>2</sub>CO<sub>3</sub>(OH)<sub>2</sub>). The principal copper ores are sulphides, oxides, and carbonates.

Copper is both essential and toxic to living systems. As an essential metal, copper is required for adequate growth, cardiovascular integrity, lung elasticity, neovascularization, neuroendocrine functions, and iron metabolism. An average adult human ingests about 1 mg of copper per day in the diet; about half of which is absorbed (Harris 1997). Copper is obligatory for enzymes involved in aerobic metabolism, such as cytochrome oxidase in the mitochondria, lysyl oxidase in connective tissue, dopamine mono-oxygenase in brain, and ceruloplasmin. As a co-factor for apo-copper-zinc superoxide dismutase (apoCuZnSOD), copper protects against free-radical damage to proteins, membrane lipids, and nucleic acids in a wide range of cells and organs.

Severe copper deficiencies, either gene defects due to mutations or low dietary copper intakes, although relatively rare in humans, have been linked to mental retardation, anemia, hypothermia, neutropenia, diarrhea, cardiac hypertrophy, bone fragility, impaired immune function, weak connective tissue, impaired central-nervous-system (CNS) functions, peripheral neuropathy, and loss of skin, fur (in animals), or hair color (Linder and Goode 1991; Uauy et al. 1998; Cordano 1998; Percival 1998).

Long-term exposure to copper can cause irritation of the nose, mouth and eyes and it causes headaches, stomachaches, dizziness, vomiting and diarrhea. Intentionally high uptakes of copper may cause liver and kidney damage and even death. Whether copper is carcinogenic has not been determined yet. There are scientific articles that indicate a link between long-term exposure to high concentrations of copper and a decline in intelligence with young adolescents.

Whether this should be of concern is a topic for further investigation. Industrial exposure to copper fumes, dusts, or mists may result in metal fume fever with atrophic changes in nasal mucous membranes. Chronic copper poisoning results in *Wilson's Disease*, characterized by a hepatic cirrhosis, brain damage, demyelination, renal disease, and copper deposition in the cornea.

Excess amount of copper sulphate also shows detrimental effect on botanical environment. Copper in ionic form is very toxic to the photosynthesis of the green algae, *Chlorella pyrenoidosa* and the diatom, *Nitzschia palea* in concentrations of copper normally found in natural waters. Copper accumulates progressively in soils where copper fungicides are used, particularly in vineyards and orchards, which are spread repeatedly. Thus, it is seen that though copper is essential of life and health, its deficiency or excesses both cause adverse effects.

### **Toxicity of Iron**

Iron is essential to almost all living things, from micro-organisms to humans. Iron is the fourth most abundant element in the earth's crust and the most abundant heavy metal; it is present in the environment mainly as Fe (II) or Fe (III). Iron is generally present in surface waters as salts containing Fe (III) when the pH is above 7. Most of those salts are insoluble and settle out or adsorbed onto surfaces; therefore, the concentration of iron in well-aerated waters is seldom high. Under reducing conditions, which may exist in groundwater, some lakes or reservoirs, and in the absence of sulphide and carbonate, high concentrations of soluble Fe(II) may be found. The presence of iron in natural waters can be attributed to the weathering of rocks and minerals, acidic mine water drainage, landfill leachates, sewage effluents and iron-related industries.

Iron, an essential element in human nutrition, is an integral component of cytochromes, porphyrins and metalloenzymes. Dietary iron requirements vary according to sex and age; older infants, children and women of menstrual age are most vulnerable to iron deficiency. Iron is an essential constituent in plant metabolism. It is indispensable for the synthesis of chlorophyll in green plants, although it does not enter in the constituent of the chlorophyll molecules. Most of the iron in plants is present as a constituent of organic molecules, enzymes and carries catalase, peroxide and cyto-chromes which play important role in cellular metabolism. Iron is indispensable for the synthesis of chlorophyll molecules. Deficiency of iron in plants causes chlorosis. It is one of the most immobile elements in plants.

Iron is also widely distributed in human body where it exists in the ionic (loosely bound, inorganic iron) and nonionic (tightly bound organic form) state. It is also a constituent of hemoglobin molecule. It is more often suggested that iron deficiency predispose children to lead poisoning. Deficiency of iron with other trace elements is the cause of pica (a morbid appetite for unusual or unfit food, as clay, chalk, ashes, bricks etc., showing itself especially in hysteria, pregnancy and chlorosis). Iron deficiency also affects the transport of lead to the tissue. According to Dr. Ronald Hoffman, depending upon the age, sex and body weight, minimum daily requirement of iron varies from 6 mg/day to 30 mg/day. Following are the recommendations for intakes of iron, according to Dr. Hoffman:

- Infants upto 6 months require 6 mg/day.
- From 6 months to 1 year, 10 mg/day is required.
- Children age 1 to 10 years, require 10 mg/day.
- Males age 11 to 18 years, require 12 mg/day.
- Males age 19 to 51+ years, require 10 mg/day.

- Females age 11 to 50 years, require 15 mg/day.
- Females over 51 years, require 10 mg/day.
- Pregnant women require 30 mg/day.
- Lactating women require 15 mg/day.

Thus while normal amount of iron is essential, the normally large amount adversely affects the human system, which may result in haemochromatosis. Iron absorption is enhanced by heme, ascorbic acid, amino acids and inhibited by tannins, calcium, phosphate, phytic acid and fibers. Although the human body contains only about 0.004% iron, this element plays a central role in the life processes. As a constituent of the respiratory pigment haemoglobin, iron is essential for the functioning of every organ and tissue of the human body. Over half of the iron is present in the form of haemoglobin; the remaining iron is stored mainly in the liver. Nutritional anaemia is one of the most prevalent deficiency diseases throughout the world. Although anaemia may result from many different causes, the form most frequently encountered is iron deficiency anaemia (Tsai, 1975). Anaemia is a major health problem in India, with over half of ever-married woman having the condition. The problem clearly requires immediate attention and intervention.

Iron usually exists in natural water both in ferric and ferrous form. The form of iron however may be altered as a result of oxidation or reduction due to the growth of bacteria in the water during storage, usually the ferric form is predominant in the most of the natural waters. Iron in water may be either in true solution or in a colloidal state or in the form of relatively coarse suspended particles. The iron determination is helpful in assessing the extent of corrosion and aiding in the solution of these problems. Research on corrosion and methods of corrosion control requires the use of many types of tests to evaluate the extent of metal loss. The most important one of them is the iron determination (Sawyer, 1978). In drinking water 0.3 mg/L is the highest desirable limit and 1 mg/L the maximum permissible limit of iron in absence of alternative sources.

### **Toxicity of lead**

Lead is the most common in the heavy elements. Several stable isotopes exist in nature,  $^{208}\text{Pb}$  being the most abundant. Lead is used mainly in the production of lead-acid batteries, solder and alloys. The organo-lead compounds tetraethyl and tetramethyl lead have also been used extensively as antiknock and lubricating agents in petrol, although their use for these purposes in many countries is being phased out. Owing to the decreasing use of lead containing additives in petrol and of lead containing solder in the food processing industry, concentrations in air and food are declining, and intake from drinking water constitutes a greater proportion of total intake.

Lead toxicity has been known for over two thousand years. The early Greeks used Pb as a glazing for ceramic pottery and became aware of its harmful effects when it was used in the presence of acidic foods. Researchers suggest that some Roman emperors became ill and even died as a result of Pb poisoning from drinking wines contaminated with high levels of Pb.

Lead is found in all human tissues and organs though it is not needed nutritionally. It is known as one of the systemic poisons because, once absorbed into the circulation it will distribute throughout the body, where it affects various organs and tissues. It inhibits hematopoiesis (formation of blood or blood cells) because it interferes with heme synthesis, and Pb poisoning may cause anaemia. Pb also affects the kidneys by inducing renal tubular dysfunction. This, in turn, may lead to secondary effects. Effects of Pb on the gastrointestinal tract include nausea,

anorexia, and severe abdominal cramps (lead colic) associated with constipation. Pb poisoning is also manifested by muscle aches and joint pain, lung damage, difficulty in breathing, and diseases such as asthma, bronchitis, and pneumonia. Pb poisoning can also damage the immune system, interfering with cell maturation and skeletal growth. Pb can pass the placental barrier and may reach the fetus, causing miscarriage, abortions and stillbirths.

According to the CDC, lead poisoning is the most common and serious environmental disease affecting young children. Children are much more vulnerable to Pb exposure than adults because of their more rapid growth rate and metabolism. Pb absorption from the gastrointestinal tract in children is also higher than in adults (25% vs. 8%), and ingested Pb is distributed to a smaller tissue mass. Children also tend to play and breathe closer to the ground, where Pb dust concentrates. One particular problem has been the Pb poisoning of children who ingest flakes of lead-based paint. This type of exposure accounts for as much as 90% of childhood Pb poisoning. The main health concern in children is retardation and brain damage. High exposure may be fatal.

Plants grown in lead mining area are known to accumulate high levels of lead. Plants near highways accumulate atmospheric dust containing Pb as foliar deposits, from the combustion of petrol as well as absorb it from soil.

### **Toxicity of Nickel**

Nickel is the 24<sup>th</sup> most abundant element (twice as Cu) and comprises approximately 0.008% of the content of the earth's crust; hence, it is a natural component of soil (parent material) and water (Alloway 1995; Hostynek and Maibach 2002; Hedfi et al. 2007). It is the 5<sup>th</sup> most abundant element in the biosphere, Ni was only discovered through the mining of other metals. Its principal ores are nickelite (NiAs), millerite (NiS), and pentlandite ([Ni, Fe]S).

Nickel is released into the environment from a variety of natural and anthropogenic sources. Among industrial sources, a considerable amount of environmental Ni derives from the combustion of coal, oil, and other fossil fuels. Other industrial sources that contribute to nickel emissions are mining and refining processes, nickel alloy manufacturing (steel), electroplating, and incineration of municipal wastes (Sharma 2005; Ensink et al. 2007). Wastewater from municipal sewage treatment plants also contributes to environmental metal accumulation (van der Hoek et al. 2002).

In small quantities nickel is essential, but when the uptake is too high it can be a danger to human health. Humans may be exposed to nickel by breathing air, drinking water, eating food or smoking cigarettes. Skin contact with nickel-contaminated soil or water may also result in nickel exposure. The most common type of Ni exposure for the public is through direct skin contact with Ni plating. Ni(CO)<sub>4</sub> gas is the most toxic out of the Ni compounds and it is the first to cause deaths in refineries. The immediate symptoms included headaches, nausea, weakness, dizziness, vomiting, and epigastric pain. There was a latency period of 1 to 5 days, followed by secondary symptoms which included chest constriction, chills and sweating, shortness of breath, coughing, muscle pains, fatigue, gastrointestinal discomfort and in severe cases, convulsions and delirium.

Nickel fumes are respiratory irritants and may cause pneumonitis. Exposure to nickel and its compounds may result in the development of a dermatitis known as "nickel itch" in sensitized individuals. The first symptom is usually itching, which occurs up to 7 days before skin eruption occurs. The primary skin eruption is erythematous or follicular which may be followed by skin ulceration. Nickel sensitivity once acquired appears to persist indefinitely. High level occupational

exposure has been associated with renal problems, vertigo and dyspnoea (Commission of European Communities, 1976). Nickel and certain nickel compounds have been listed by the National Toxicology Program (NTP) as being reasonably anticipated to be carcinogens. The International Agency for Research on Cancer (IARC) has listed nickel compounds within group 1 (there is sufficient evidence for carcinogenicity in humans) and nickel within group 2B (agents which are possibly carcinogenic to humans).

### **Toxicity of Zinc**

Zinc is the twenty-fifth most abundant element. It is widely found in nature and makes up 0.02% by weight of the earth's crust (Budavari, 1989). Zinc normally appears dull grey owing to coating with an oxide or basic carbonate. It is extremely rare to find zinc metal free in nature (Beliles, 1994). The major source of zinc is sphalerite, smithsonite, hemimorphite and franklinite. The largest natural emission of zinc to water results from erosion. Natural inputs to air are mainly due to igneous emissions and forest fires. Anthropogenic and natural sources are of a similar magnitude. The main anthropogenic sources of zinc are mining, zinc production facilities, iron and steel production, corrosion of galvanized structures, coal and fuel combustion, waste disposal and incineration, and the use of zinc-containing fertilizers and pesticide

Zinc is an essential element for both animals and man which is necessary for the functioning of various enzyme systems. Nutritional zinc deficiency in humans has been reported in a number of countries. In Egypt endemic zinc deficiency syndrome among young men has been reported (Prasad, et al., 1961; Halsted et al., 1972). This syndrome having characters of retarded growth, signs of immaturity and anemia is probably caused by low intestinal absorption of zinc. Its complete cure was observed by administration of large doses of zinc sulfate.

Acute toxicity arises from the ingestion of excessive amounts of zinc salts, either accidentally or deliberately as an emetic or dietary supplement. Vomiting usually occurs after the consumption of more than 500 mg of zinc sulfate. Mass poisoning has been reported following the drinking of acidic beverages kept in galvanized containers; fever, nausea, vomiting, stomach cramps and diarrhea occurred 3–12 h after ingestion. Food poisoning attributable to the use of galvanized zinc containers in food preparation has also been reported; symptoms occurred within 24 h and included nausea, vomiting, and diarrhea, sometimes accompanied by bleeding and abdominal cramps.

Symptoms of zinc toxicity in humans include vomiting dehydration, electrolyte imbalance, abdominal pain, nausea lethargy, dizziness and lack of muscular co-ordination (Prasad and Oberleas, 1976). Acute renal failure caused by zinc chloride has also been reported (Csata, 1968). Zinc unlike Hg, Pb or Cd is an essential trace element for organism and plays a vital role in the physiological and metabolic processes of many organisms. However, zinc can be toxic to the organisms in high concentrations.

Zinc is an essential trace element for plants and animals including human begins and it plays vital role in metabolic processes. The most common effect of zinc poisoning in human are non fatal 'metal fume' fever caused by inhalation of zinc oxide fumes and illness arising from the ingestion of acidic foods prepared in zinc galvanized containers. Particularly, zinc chloride in Zn salts produce dermatitis upon contact with the skin.



## 4. WATER QUALITY CRITERIA

As it is a well-known fact that the sources of usable water on the earth are limited, any kind of pollution in such sources will further reduce its availability. Polluted water cannot be utilized for drinking because of its inherent health risk. Water with high salt contents is not suitable for agriculture and most industries. The quality of water also interferes with the aesthetic and economic pursuits of water bodies by affecting marine and fresh water life. However, the water which is not suitable for irrigation may be quite suitable for industrial cooling. Every use of water requires a certain minimum quality standard with regards to the presence of dissolved and suspended materials of both chemical and biological nature. The desirable quality of water ensures no harm to the user.

To maintain the minimum quality standard for diverse user has led to the formulation of water quality criteria and water quality standards. Water quality criteria can be considered as specific requirements on which a decision or judgment to support a particular use will be based. The criteria for the various uses are developed based on the experimental data and our current knowledge of the health, ecology and other issues and assessing its overall economical effect these are not a set of fixed values, but subject to modification as the scientific data get updated and more and more knowledge is gathered. The term standard applies to any definite principle or measure established by an authority by limiting concentration of different constituents in water to ensure the safe use of water and safeguard the environment.

### Drinking Water Standards

In view of the direct consumption of water by human beings, the domestic water supply is considered to be most important use of water and drinking use has been given first priority on utilization of water resource in the National Water Policy. In India, agencies like the Bureau of Indian Standards (BIS) and Indian Council of Medical Research (ICMR) have formulated drinking water standards. The World Health Organization (WHO) has also laid down drinking water standards, which are considered as international standards. Drinking water standards for trace and toxic metals according to BIS code 10500:2012 are given below in Table 2.

*Table 2: Drinking Water Standards for Trace & Toxic metals (BIS-10500:2012)*

S.No.	Toxic metal	Requirement (Acceptable Limit )		Permissible Limit in the Absence of Alternative Source	
		(mg/L)	(µg/L)	(mg/L)	(µg/L)
1	Total arsenic as As	0.01	10	0.05	50
2	Cadmium as Cd	0.003	3	No relaxation	
3	Total Chromium as Cr	0.05	50	No relaxation	
4	Copper as Cu	0.05	50	1.5	1500
5	Iron as Fe	0.30	300	No relaxation	
6	Lead as Pb	0.01	10	No relaxation	
7	Nickel as Ni	0.02	20	No relaxation	
8	Zinc as Zn	5	5000	15	15000

## Regulatory Limits of Heavy Metals US Environmental Protection Agency (US EPA)

Several types of toxic heavy metals frequently pollute surface water bodies and their maximum permissible limits according to WHO and US EPA are presented in Table 3. These limits are mandatory for all water supply systems. Naturally occurring water (both surface and groundwater) frequently contains some of these heavy metals at concentrations 100 or 1000 times more than the prescribed MCL values. Since these heavy metals are valuable resources for different industrial applications, their removal, recovery and recycling assume greater significance.

**Table 3: Maximum acceptable limits of several toxic heavy metal ions in the surface waters based on WHO and US EPA regulations.**

Heavy Metal	Toxicity rank	WHO (µg/L)	USEPA (µg/L)
<b>Arsenic</b>	1	10	10
<b>Lead</b>	2	10	15
<b>Mercury</b>	3	1	2
<b>Cadmium</b>	8	3	5
<b>Chromium</b>	17	50	100
<b>Nickel</b>	57	70	100
<b>Zinc</b>	75	NGL	5000
<b>Copper</b>	125	2000	1300
<b>Iron</b>	-	-	300
<b>Note : NGL = NO Guideline</b>			

In accordance with toxicity data obtained from human clinical investigations, and various other studies such as animal experiments, drinking water standards have been proposed by various governmental bodies. A brief summary is given in Table 4 compiled by Hattingh, 1977.

**Table 4: Drinking water quality criteria for trace metals which might affect public health**

Parameter (unit-µg/L)	USPHS (1962)	Japan (1968)	USSR (1970)	WHO European (1970)	WHO Intern. (1971)	SABS (1971)	NAS (1972)	Australia (1973)	US EPA (1975)	FRG (1975)	BIS 10500:2012
<b>Arsenic</b>	10	50	50	50	50	50	100	50	50	40	10
<b>Barium</b>	1,000	-	4,000	1,000	-	-	1,000	1,000	1,000	-	700
<b>Cadmium</b>	10	-	10	10	10	50	10	10	10	6	3
<b>Chromium</b>	50	50	100	50	-	50	50	50	50	50	50
<b>Copper</b>	1,000	10,000	100	50	50	1,000	1,000	10,000	-	-	50
<b>Lead</b>	50	100	100	100	100	50	50	50	50	40	10
<b>Mercury</b>	-	1	5	-	1	-	2	-	2	4	1
<b>Selenium</b>	10	-	1	10	10	-	10	10	10	8	10
<b>Silver</b>	50	-	-	-	-	-	-	50	50	-	100
<b>Zinc</b>	5,000	100	1,000	5,000	5,000	5,000	5,000	5,000	-	2,000	5000

World Health Organisation (WHO)

US Public Health Service (USPHS)

South African Bureau of Standards (SABS)

Russia (USSR)

USA National Academy of Sciences (NAS)

Australia, Japan and Environmental Protection Agency (EPA) of the USA

Finally, it is worth noting that maximum permissible concentrations (USSR) and threshold limit values (US) have been established within the field of occupational hygiene (Roschin and Timofeevskaya, 1975). These values pertain to the control of occupational exposure with regard to airborne particulates. In consequence, they are of no relevant importance in the present context.

### Quality Criteria for Livestock

A safe water supply is essential for healthy livestock. Contaminated water can affect growth, reproduction and productivity of animals as well as safety of animal products for human consumption. Contaminated water supplies for livestock and poultry can also contaminate human drinking water. For these reasons, farm water supplies should be protected against contamination from bacteria, nitrates, sulfates, and pesticides. The Environmental Protection Agency has set drinking water standards for human consumption, but no set of standards exists for drinking water for livestock or poultry. However, The National Academy of Science has recommended maximum levels for some contaminants.

The permissible daily intake of substances is greatly dependent on the concentration of the substances and the quality of water ingested. The daily water requirement of animals vary with a number of factors such as temperature and humidity, the water content in the food, the degree of exertion of the animal and the salinity of the water supply. Therefore, the recommended concentrations of specific substance are based on typical usage.

Excessive salinity in livestock drinking water can upset the animals' water balance and cause even death. High levels of specific ions in water can cause animal health problems and death. The National Academy of Sciences offers upper limits for toxic substances in water (Table 5).

*Table 5: Recommendations for levels of toxic substances in drinking water for livestock*

Sr.	Toxic metal	Upper Limit in mg/L	Sr.	Toxic metal	Upper Limit in mg/L
1.	Arsenic	0.2	5.	Iron as Fe	-
2.	Cadmium as Cd	0.05	6.	Mercury as Hg	0.01
3.	Chromium as Cr	1.0	7.	Zinc as Zn	24
4.	Copper as Cu	0.5			

Sources: Environmental Studies Board, Nat. Acad. Of Sci., Nat Acad of Eng., Water Quality Criteria, 1972  
Ayers, R.S. and D.W. Wescot, Water Quality for Agriculture, Food and Agriculture Organization of the United Nations, Rome, 1976

### Water Quality for Irrigation

Nearly all waters contain dissolved salts and trace elements, many of which results from the natural weathering of the earth's surface. In addition, drainage waters from irrigated lands and effluent from city sewage and industrial waste water can impact water quality. In most irrigation situations, the primary water quality concern is salinity levels, since salts can affect both the soil structure and crop yield. However, a number of trace elements are found in water which can also limit its use for irrigation.

The required quality of Irrigation water varies substantially, depending upon the salinity, soil permeability, toxicity and some miscellaneous concerns such as excessive nitrogen loading or unusual pH of water. Some elements in irrigation water may be directly toxic to crops. Establishing toxicity limits in water is complicated by reactions which take place once the water is applied to the soil. When an element is added to the soil from irrigation, it may be inactivated by chemical reactions or it may build up in the soil until it reaches a toxic level. An element at a given concentration in water may be immediately toxic to a crop because of foliar effects if sprinkler irrigation is used. If furrow irrigation is used, it may require a number of years for the element to accumulate to toxic levels, or it may be immobilized in the soil and never reach toxic levels. The recommended water quality for irrigation is shown in Table 6.

**Table 6: Recommended limits for constituents in reclaimed water for irrigation.**

Constituent	Long-term use (mg/L)	Short-term use (mg/L)	Remarks
<b>Aluminum (Al)</b>	5.00	20	Can cause nonproductivity in acid soils, but soils at pH 5.5 to 8.0 will precipitate the ion and eliminate toxicity.
<b>Arsenic (As)</b>	0.10	2.0	Toxicity to plants varies widely, ranging from 12 mg/L for Sudan grass to less than 0.05 mg/L for rice.
<b>Beryllium (Be)</b>	0.10	0.5	Toxicity to plants varies widely, ranging from 5 mg/L for kale to 0.5 mg/L for bush beans.
<b>Boron (B)</b>	0.75	2.0	Essential to plant growth, with optimum yields for many obtained at a few-tenths mg/L in nutrient solutions. Toxic to many sensitive plants (e.g., citrus) at 1 mg/L. Most grasses relatively tolerant at 2.0 to 10 mg/L.
<b>Cadmium (Cd)</b>	0.01	0.05	Toxic to beans, beets, and turnips at concentrations as low as 0.1 mg/L in nutrient solution. Conservative limits recommended.
<b>Chromium (Cr)</b>	0.1	1.0	Not generally recognized as essential growth element. Conservative limits recommended due to lack of knowledge on toxicity to plants.
<b>Cobalt (Co)</b>	0.05	5.0	Toxic to tomato plants at 0.1 mg/L in nutrient solution. Tends to be inactivated by neutral and alkaline soils.
<b>Copper (Cu)</b>	0.2	5.0	Toxic to a number of plants at 0.1 to 1.0 mg/L in nutrient solution.
<b>Fluoride (F)</b>	1.0	15.0	Inactivated by neutral and alkaline soils.
<b>Iron (Fe)</b>	5.0	20.0	Not toxic to plants in aerated soils, but can contribute to soil acidification and loss of essential phosphorus and molybdenum.
<b>Lead (Pb)</b>	5.0	10.0	Can inhibit plant cell growth at very high concentrations.
<b>Lithium (Li)</b>	2.50	2.50	Tolerated by most crops at up to 5 mg/L; mobile in soil. Toxic to citrus at low doses recommended limit is 0.075 mg/L.
<b>Manganese (Mg)</b>	0.2	10.0	Toxic to a number of crops at a few-tenths to a few mg/L in acid soils.
<b>Molybdenum (Mo)</b>	0.01	0.05	Nontoxic to plants at normal concentrations in soil and water. Can be toxic to livestock if forage is grown in soils with high levels of available molybdenum.
<b>Nickel (Ni)</b>	0.2	2.0	Toxic to a number of plants at 0.5 to 1.0 mg/L; reduced toxicity at neutral or alkaline pH.
<b>Selenium (Se)</b>	0.02	0.02	Toxic to plants at low concentrations and to livestock if forage is grown in soils with low levels of added selenium.
<b>Vanadium (V)</b>	0.1	1.0	Toxic to many plants at relatively low concentrations.
<b>Zinc (Zn)</b>	2.0	10.0	Toxic to many plants at widely varying concentrations; reduced at increased pH (6 or above) and in fine textured or organic soils.

Source: Rowe and Abdel-Magid, 1995

## 5. METHODOLOGY

Living organisms require trace amounts of some metals including cobalt, copper, iron, manganese, molybdenum, vanadium, strontium and zinc. Excessive levels of these essential metals are detrimental to the organisms. Non-essential metals like cadmium, chromium, mercury, lead, arsenic and antimony are of more concern to surface water system because these metals produce undesirable effects on human and animal life. Once these metals enter into the system, they remain for relatively longer periods. Once absorbed, inorganic metals are capable of reacting with a variety of binding sites in the human body and have strong attraction to biological tissues. Natural water contains toxic metals in traces. Industrial wastes containing metals have aggravated the problem of metal pollution. Electroplating, metallurgical industry, galvanising plants, tanneries and thermal power stations are few of the major contributors of metal pollution in surface water. All metals exist in surface water in colloidal, particulate and dissolved forms, although dissolved concentrations are generally low. The soluble forms are generally ions or unionized, organo-metallic chelates or complexes. The solubility of trace metals in surface water is predominately controlled by pH, the type and concentration of ligands on which the metal can absorb and the oxidation state of the mineral components.

### Metal Detection Techniques

The analytical methods commonly used in estimation of heavy metals in water and waste waters are:

- Inductively coupled plasma analyser (ICP)
- Atomic absorption spectrophotometry (AAS)
- Colorimetric methods
- Polarographic estimation
- Ion Selective Electrodes (ISE)

Inductively coupled plasma (ICP) techniques and atomic absorption spectrophotometry are applicable over a broad linear range and are especially sensitive for refractory elements. In general, detection limits for ICP methods are higher than AAS. Colorimetric methods are applicable when interferences are known to be within the limit of the particular method. Extreme care should be taken in sampling and analysis to prevent contamination.

### Chemicals and Reagents

All chemicals and reagents used in the chemical analysis during the study were of analytical reagent grade (Merck). Standard solutions of metals ions were procured from Merck, Germany. De-ionized water was used throughout the study. All glassware and containers used were thoroughly cleaned by soaking in detergent followed by soaking in 10% nitric acid for 48hrs and finally rinsed with de-ionized water several times prior to use.

### Method

In the present study, samples were collected in polyethylene containers. These water samples were prepared for the determination of heavy metals, viz., arsenic, cadmium, chromium, copper, iron, lead, nickel and zinc by atomic absorption spectrophotometer. The study was carried out on Agilent 240FS atomic absorption spectrophotometer by graphite tube analyzer (GTA) using argon gas and Iron analyzed by flame operation using air and acetylene gas. The

wavelength, current, slit and method employed using atomic absorption spectrophotometer is given in Table 7.

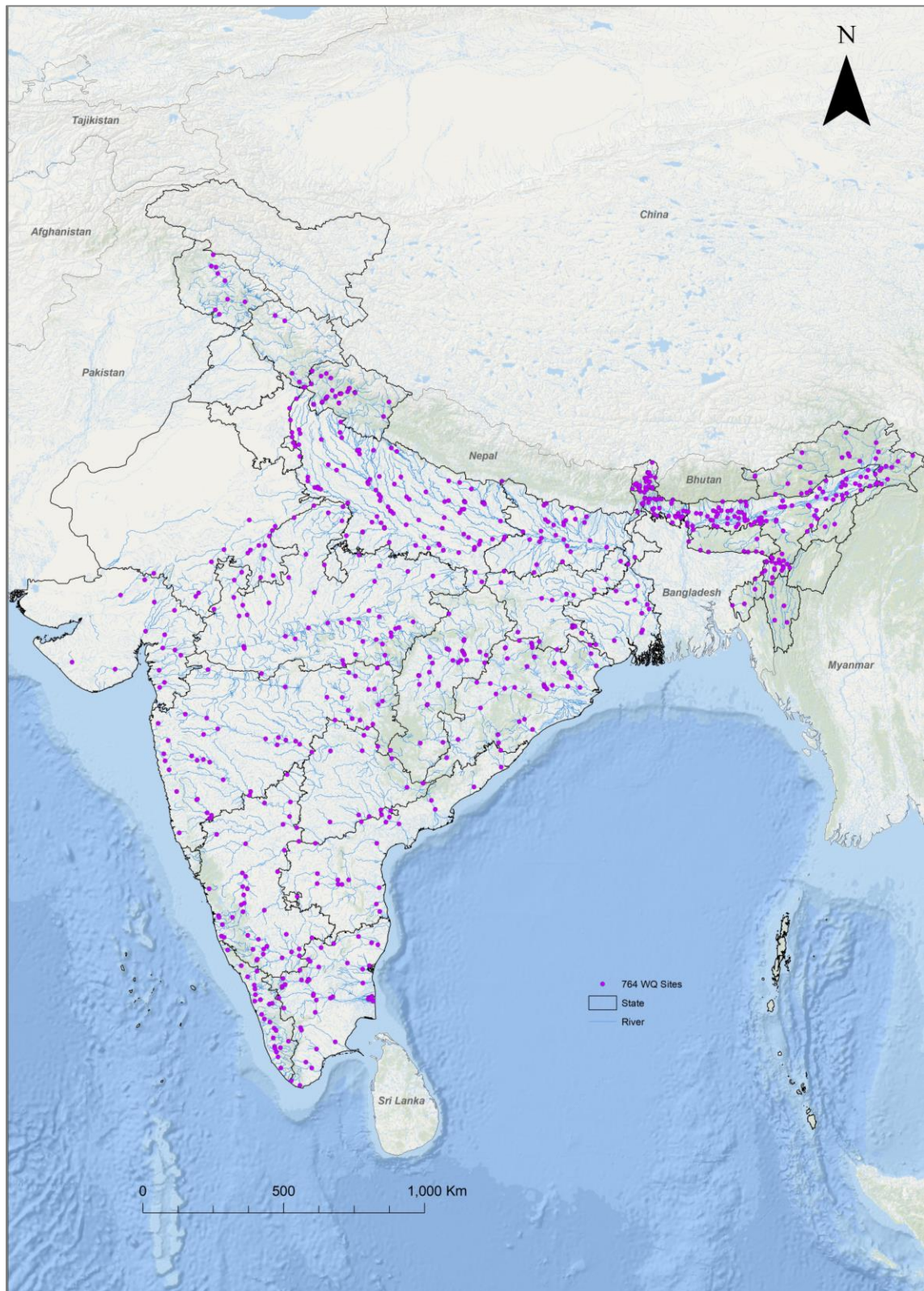


*Table 7: The wavelength, current, slit and method used for chemical analysis by AAS*

Sr.	Parameter	Wave length (nm)	Current (mA)		Slit (nm)	Method used for analysis
			Recommended	Maximum		
1	Arsenic	193.7	10	12	0.5	By AAS with VGA
2	Cadmium	228.8	4	10	0.5	By AAS with Graphite Tube Analyzer (GTA)
3	Chromium	357.9	7	15	0.2	
4	Copper	324.8	4	10	0.5	
5	Mercury	253.7	4	8	0.5	By AAS with VGA
6	Iron	248.3	7	10	0.2	By AAS with Flame
7	Lead	217	10	12	1.0	By AAS with Graphite Tube Analyzer (GTA)
8	Nickel	232	4	10	0.2	
9	Zinc	213.9	5	10	1.0	

## 6. RIVER WATER MONITORING BY CWC

Presently, Central Water Commission (CWC) is monitoring river water quality at its 652 key hydrological observation stations covering all the important river basins of India. Also, water quality samples are being collected from 112 water quality sampling stations (Figure 1 and Table 8).



**Figure 1: Water quality network of CWC**

Further, CWC is planning to increase the water quality network on Indian rivers by considering future objectives and necessities, to cover all rivers in the country. The basin-wise and state-wise water quality stations monitored by Central Water Commission as on Sep 2020 are depicted in Figure 2 and Figure 3. Details are given in Table 9 and Table 10 respectively.

**Table 8: Organisation-wise distribution of Water Quality Sites of CWC**

S.No.	Organisation	GDQ	GDSQ	GQ	WQSS	Total
1	B&OBO Shillong	7	21	8		36
2	BBO Guwahati	28	25	58		111
3	C&SRO Coimbatore	35	53			88
4	IBO Chandigarh	3	8			11
5	KGBO Hyderabad	21	34	6		61
6	LGBO Patna	8	33	2	6	49
7	MTBO Gandhinagar	6	15		1	22
8	MCO Nagpur	4	20	1		25
9	MERO Bhubaneswar	2	43	1	43	89
10	MSO Bengaluru	9	19			28
11	NBO Bhopal	6	9	1		16
12	T&BDBO Kolkata	22	22	18	22	84
13	UGBO Lucknow	6	31	1	33	71
14	YBO New Delhi	26	37	3	7	73
<b>Grand Total</b>		<b>183</b>	<b>370</b>	<b>99</b>	<b>112</b>	<b>764</b>



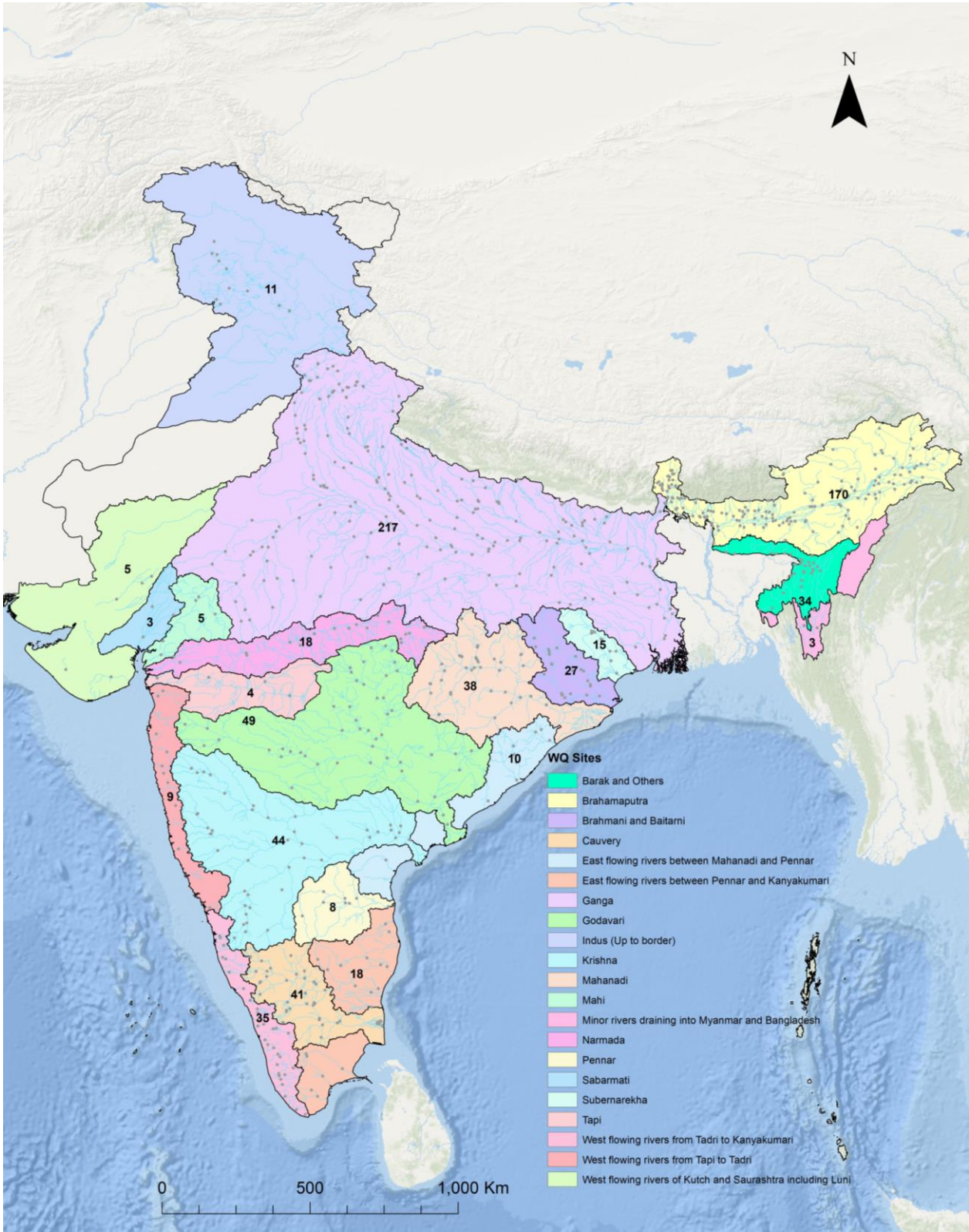


Figure 2: Map showing the basin-wise no. of water quality sites monitored by CWC.

*Table 9: Basin-wise water-quality stations monitored by CWC*

<b>S.No.</b>	<b>Basin</b>	<b>WQ Sites</b>
1	Barak & Meghana Basin	34
2	Brahmaputra Basin	170
3	Brahmani-baitarni Basin	27
4	Cauvery Basin	41
5	EFR b/w Mahanadi-Pennar	10
6	EFR b/w Pennar-Kanyakumari	18
7	Ganga Basin	217
8	Godavari Basin	49
9	Indus Basin	11
10	Krishna Basin	44
11	Mahanadi Basin	38
12	Mahi Basin	5
13	Minor rivers draining into Myanmar and Bangladesh	3
14	Narmada basin	18
15	Pennar Basin	8
16	Sabarmati basin	3
17	Subernarekha	15
18	Tapi Basin	4
19	WFR from Tadri to Kanyakumari	35
20	WFR from Tapi to Tadri	9
21	WFR of Kutchh, Saurashtra including Luni	5
<b>Grand Total</b>		<b>764</b>

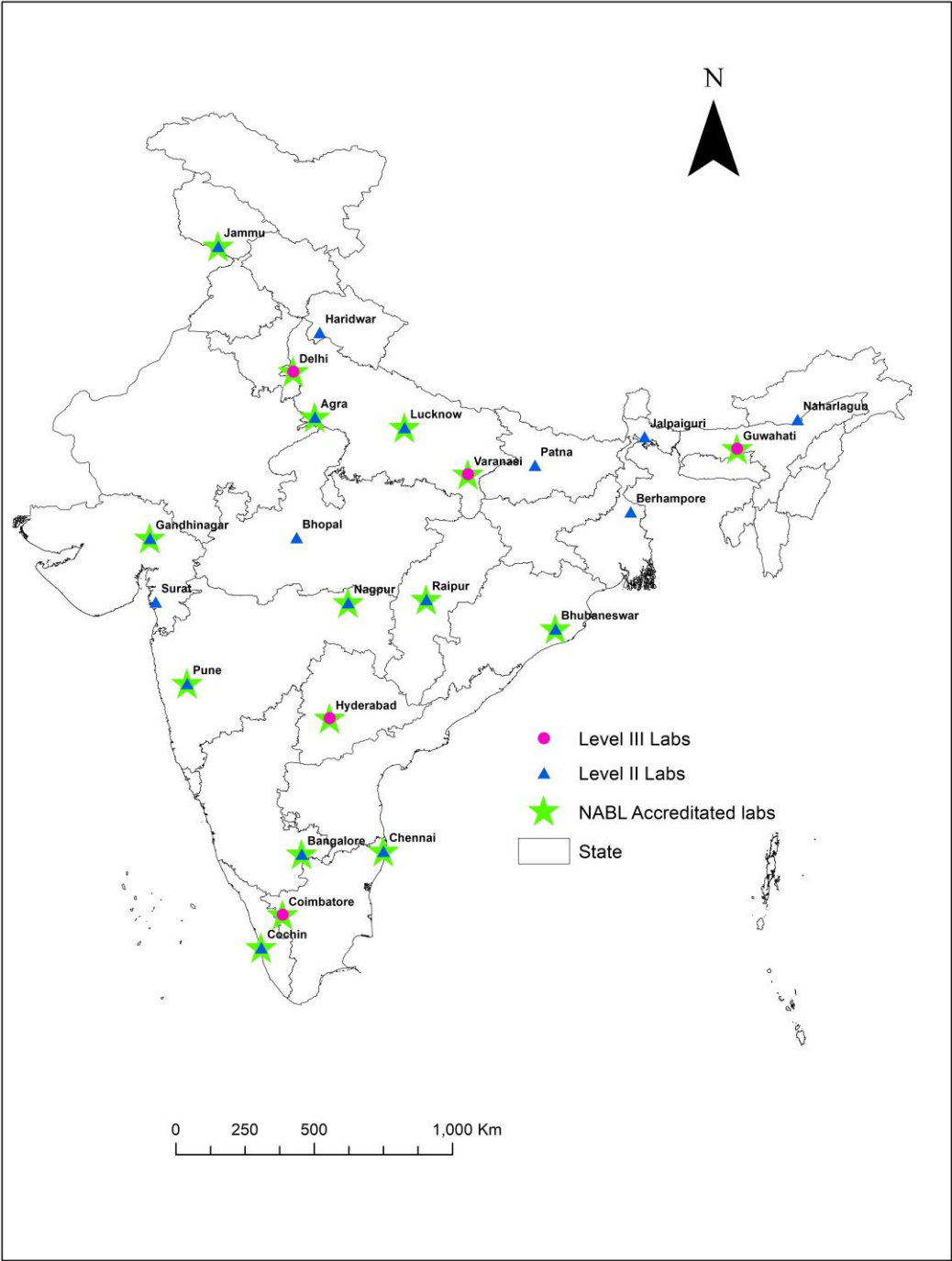


Figure 3: Map showing the state-wise no. of water quality sites monitored by CWC.

*Table 10: State-wise distribution of Water Quality Sites of CWC*

S.No.	State/UT	Grand Total
1	Andhra Pradesh	21
2	Arunachal Pradesh	27
3	Assam	102
4	Bihar	29
5	Chattisgarh	28
6	Delhi	3
7	Gujarat	14
8	Haryana	2
9	Himachal Pradesh	6
10	Jammu & Kashmir	9
11	Jharkhand	17
12	Karnataka	42
13	Kerala	26
14	Madhya Pradesh	45
15	Maharashtra	46
16	Manipur	1
17	Meghalaya	9
18	Mizoram	5
19	Odisha	54
20	Pondicherry	3
21	Rajasthan	18
22	Sikkim	30
23	Tamil Nadu	42
24	Telangana	13
25	Tripura	5
26	Uttar Pradesh	92
27	Uttrakhand	29
28	West Bengal	46
	<b>Total</b>	<b>764</b>

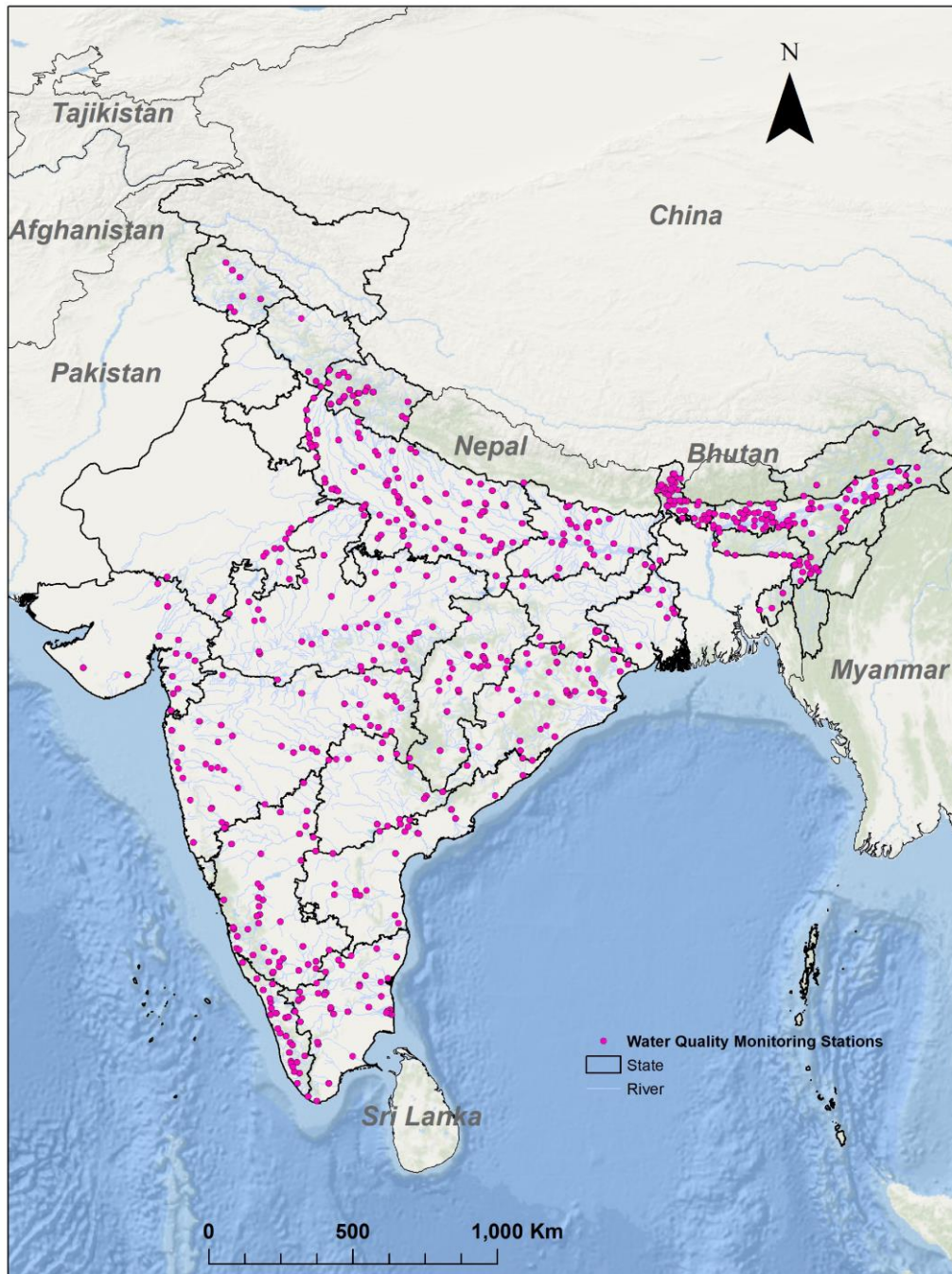
CWC is maintaining a three-tier laboratory system for analysis of the physio-chemical parameters of the water. The Level-I laboratories are located at 378 field water quality monitoring stations on major rivers of India where physical parameters such as temperature, colour, odour, specific conductivity, pH and dissolved oxygen of river water are observed. There are 18 Level-II laboratories located at selected division offices throughout India to analyses 25 nos. of physio-chemical and bacteriological parameters of water. 5 Level-III laboratories are functioning at Varanasi, Delhi, Hyderabad, Coimbatore, and Guwahati where 41 parameters including heavy metals / toxic parameters and pesticides are analysed. Out of 23, 16 laboratories of CWC have got accreditation by National Accreditation Board for Testing and Calibration Laboratories (NABL) in accordance with Standard ISO/IEC 17025:2017, map of which are given in **Figure 4**.



**Figure 4: Water quality laboratories of CWC**

## 7. STUDY AREA

There are 764 water quality monitoring stations across India (as on 01.01.2021). Out of which, a total number of 688 water quality stations covering all the major River Basins in India right from East to West and North to South were studied for Trace and Toxic metals during Aug 2018 to Dec 2020. The details of the 688 monitoring stations on the Indian Rivers with their latitude, longitude, district and states are enclosed as **Annexure-I**. WQ monitoring station is shown in GIS map as **Figure 5**.



*Figure 5: 688 Water quality stations monitored on important rivers covering all the major river basin of India.*

## 8. RESULTS AND DISCUSSION

Details of Indian rivers and their water quality monitoring stations where the water was found within acceptable limits in terms of toxic metal contamination as per (BIS 10500:2012) metal concentration during the study period is presented in **Annexure-II**. List of Indian rivers and their water quality monitoring stations and where the water was found above acceptable limits (BIS 10500:2012) metal concentration during the study period is presented in **Annexure-III**. Details of water quality monitoring stations where the water was found above the acceptable limit (BIS 10500:2012) in presence of only one parameter (Iron or Copper or Cadmium or Arsenic or Chromium or Nickel or Lead) during the study period is presented in **Annexure-IV**. Details of water quality monitoring stations where the water was found above the acceptable limit (BIS 10500:2012) in presence of more than one toxic metals during the study period is presented in **Annexure-V**. River wise summary and State-wise summary is given in **Annexure-VI** and **Annexure VII**, respectively.

### Summary of ARSENIC content in Indian Rivers

BIS has recommended 0.01 mg/L (10 µg/L) as acceptable concentration of arsenic in drinking water. Total 2834 numbers of water samples were analysed and collected from 688 water quality monitoring stations for arsenic content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The arsenic concentration varies from 0.00 to 13.33 µg/L. Maximum arsenic concentration (13.33 µg/L) was observed at Porakudi water quality monitoring station on Arasalar River (a tributary of Cauvery River) during Dec, 2019. From reported data of all River water quality stations, it was found that arsenic concentration was above the acceptable limits at 8 sites.

It is also observed that, the acceptable limit exceeds only during non-monsoon period. **Table 11** shows the details of stations with respect to their river where Arsenic concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 6**.

*Table 11: Rivers and WQ monitoring stations where Arsenic exceeded the acceptable limits*

S.No.	Name Of Site	Month/Year	Arsenic (µg/L)	River	State	Latitude	Longitude
1	Bhadrachalam	Dec-19	10.17	Godavari	Telangana	17.6681	80.8772
2	Changsari	Dec-19	12.60	Brahmaputra	Assam	26.2547	91.6603
3	Faizabad U/S	Dec-19	10.11	Ghaghra	Uttar Pradesh	26.7786	82.0817
4	Madamon	Dec-19	10.45	Pamba	Kerala	9.3639	76.8378
5	Mirzapur	Dec-19	10.36	Ganga	Uttar Pradesh	25.1561	82.5303
6	Mohgaoan	Dec-19	10.76	Burhner	Madhya Pradesh	22.7658	80.6233
7	Moradabad	Dec-19	10.85	Ramganga	Uttar Pradesh	28.8267	78.7981
8	Porakudi	Dec-19	13.33	Arasalar	Tamil Nadu	10.9036	79.7072

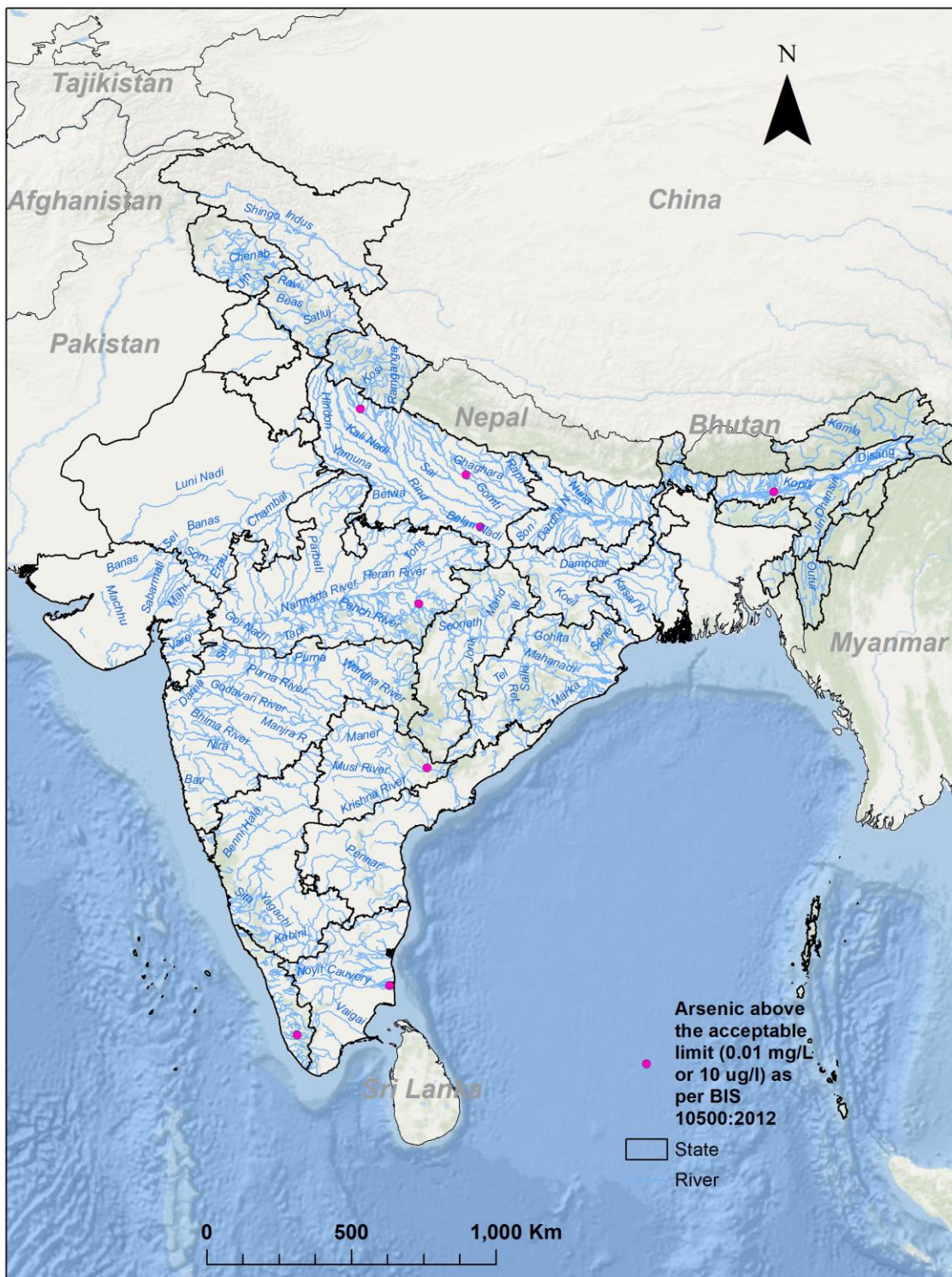


Figure 6: WQ monitoring stations where Arsenic exceeded the acceptable limits.



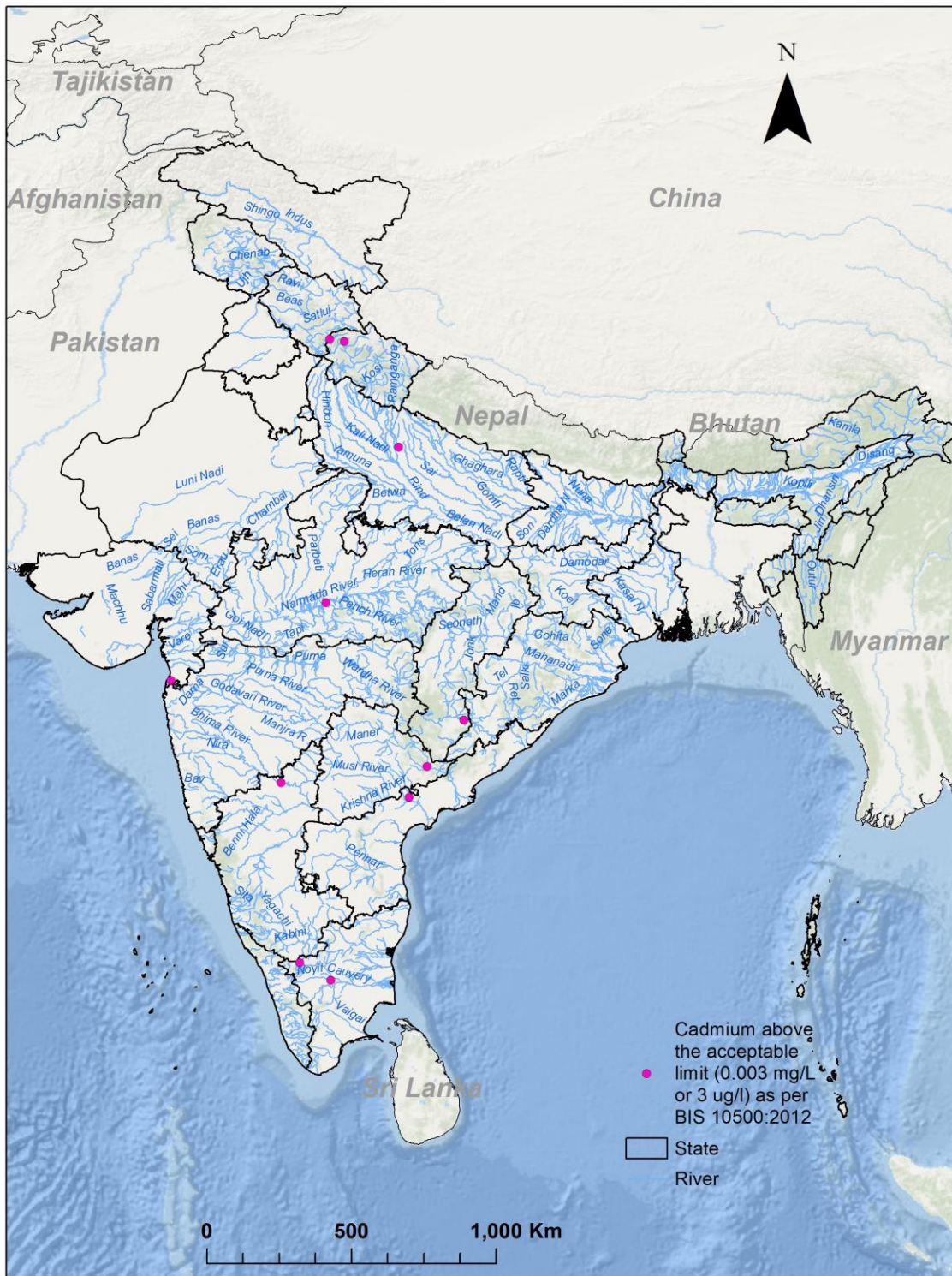
## Summary of CADMIUM content in Indian Rivers

BIS has recommended 0.003 mg/L (3 µg/L) as acceptable concentration of Cadmium in drinking water. Total 3113 numbers of water samples were analysed and collected from 688 water quality monitoring stations for cadmium content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The cadmium concentration varies from 0.00 to 12.57 µg/L. Maximum cadmium concentration (12.57 µg/L) was observed at Todarpur water quality monitoring station on Sukheta River during Dec, 2020. From reported data of all River water quality stations, it was found that cadmium concentration was above the acceptable limits at 11 sites.

Table 12 shows the details of stations with respect to their river where Cadmium concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 7**.

*Table 12: Rivers and WQ monitoring stations where Cadmium exceeded the acceptable limits.*

S.No.	Name Of Site	Month/Year	Cadmium (µg/L)	River	State	Latitude	Longitude
1	Bhadrachalam	Aug-19	4.08	Godavari	Telangana	17.6681	80.8772
2	Deongaon Bridge	Aug-19	3.25	Bhima	Karnataka	17.1703	76.3283
3	Elunuthimangalam	Dec-20	12.29	Noyyal	Tamil Nadu	11.0317	77.8875
4	Hoshangabad	Aug-19	3.09	Narmada	Madhya Pradesh	22.7561	77.7328
5	Jagdapur	Aug-19	3.15	Indravati	Chattisgarh	19.1081	82.0228
6	Keesara	Aug-19	5.18	Munneru	Andhra Pradesh	16.7156	80.3164
7	Kuthnuor	Dec-20	3.21	Yamuna	Uttrakhand	30.8739	78.3028
8	Thengumarahada	Dec-20	3.19	Moyar	Tamil Nadu	11.5728	76.9192
9	Todarpur	Dec-20	12.57	Sukheta	Uttar Pradesh	27.5846	79.9952
10	Tuini/Tons	Dec-20	12.31	Tons	Uttarakhand	30.9397	77.8467
11	Vapi	Dec-18	4.22	Damanganga	Gujarat	20.3389	72.9117



**Figure 7: WQ monitoring stations where Cadmium exceeded the acceptable limits**

## Summary of CHROMIUM content in Indian rivers

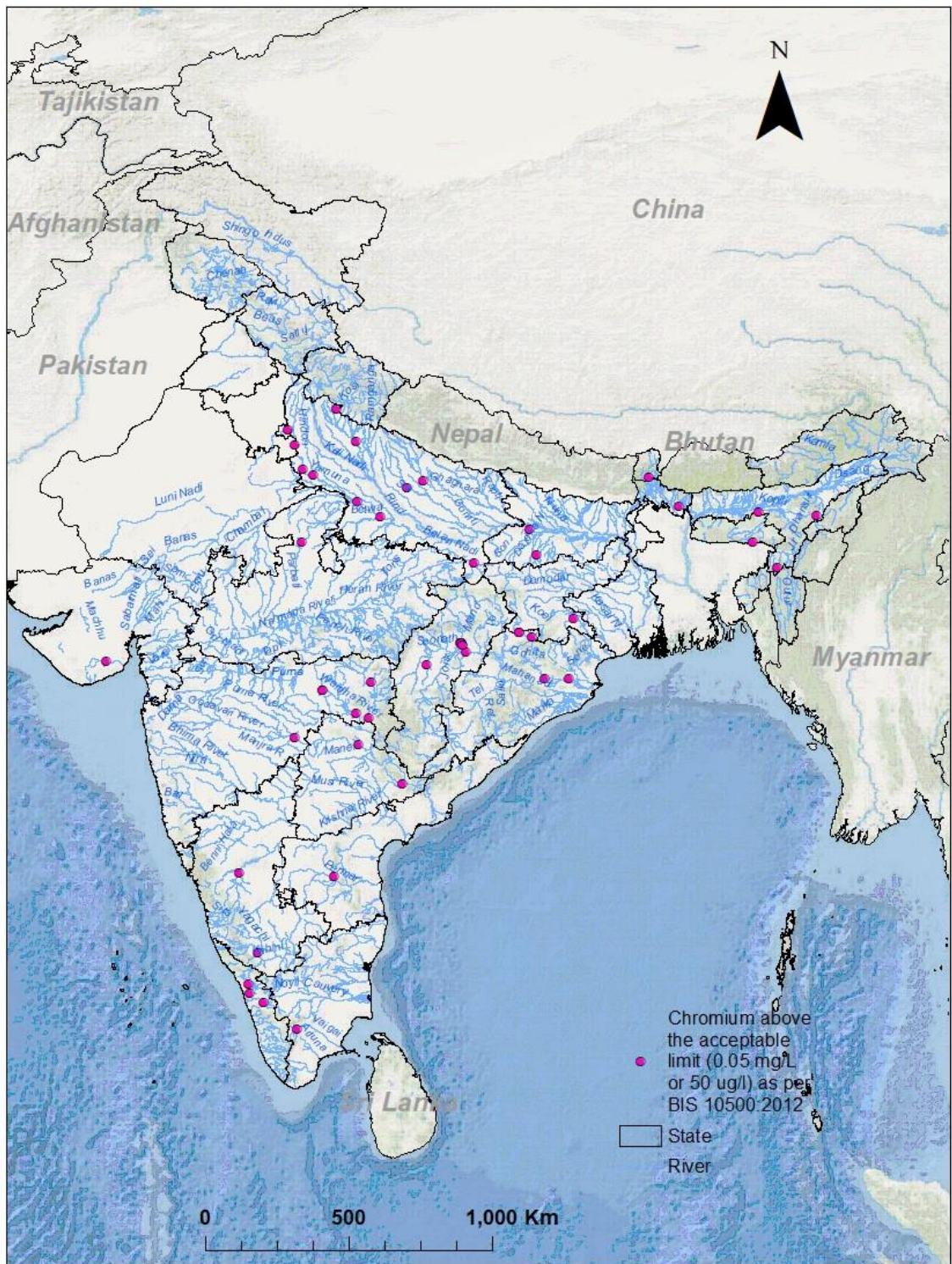
BIS has recommended 0.05 mg/L (50 µg/L) as acceptable concentration of Chromium in drinking water. Total 3106 numbers of water samples were analysed and collected from 688 water quality monitoring stations for Chromium content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The Chromium concentration varies from 0.00 to 180.47 µg/L. Maximum Chromium concentration (180.47 µg/L) was observed at M.B.P.L. water quality monitoring station on Hasdeo River during Dec, 2019. From reported data of all River water quality stations, it was found that Chromium concentration was above the acceptable limits at 46 sites.

**Table 13** shows the details of stations with respect to their river where Chromium concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 8**.

*Table 13: Rivers and WQ monitoring stations where Chromium exceeded the acceptable limits.*

S.No.	Name of Site	Month /year	Chromium (µg/L)	River	State	Latitude	Longitude
1	Agra (P.G.)	Aug-19	135.15	Yamuna	Uttar Pradesh	27.2542	78.0231
2	Alladupalli	Dec-20	56.04	Kunderu	Andhra Pradesh	14.7172	78.6686
3	Ambasam-udram	Dec-20	87.71	Vaigai	Tamil Nadu	9.9256	77.5117
4	Ambgaon (Bag-di)	Dec-20	53.60	Chulband	Maharashtra	20.7783	79.8513
5	Ashti	Aug-19	55.05	Wainganga	Maharashtra	19.6867	79.7839
6	Auraiya	Aug-19	60.10	Yamuna	Uttar Pradesh	26.4272	79.4181
7	Bamni	Dec-20	82.83	Wardha	Maharashtra	19.8139	79.3794
8	Bareilly	Dec-20	79.69	Ramganga	Uttar Pradesh	28.2992	79.3667
9	Basantpur	Dec-20	56.11	Mahanadi	Chattisgarh	21.7267	82.7881
10	Bokajan	Aug-19	58.12	Dhansari(South)	Assam	26.0161	93.7872
11	C.R.B.	Dec-19	68.57	Hasdeo	Chattisgarh	22.0244	82.6417
12	Chopan	Aug-19	142.83	Sone	Uttar Pradesh	24.5333	83.0500
13	Delhi Rly Bridge	Dec-20	82.88	Yamuna	Delhi	28.6625	77.2467
14	Elginbridge	Dec-18	53.21	Ghaghra	Uttar Pradesh	27.0956	81.4839
15	GAYA	Dec-20	139.61	Phalgu	Bihar	24.7717	85.0100
16	GHARMURA	Dec-20	61.20	Dhaleswari	Assam	24.3667	92.5489
17	GHUGUMARI	Aug-19	75.93	Torsa	West Bengal	26.2878	89.4608
18	Harlahalli	Dec-18	92.72	Tungabhadra	Karnataka	14.8306	75.7228
19	Hivra	Aug-18	53.95	Wardha	Maharashtra	20.5472	78.3247
	Hivra	Dec-18	50.39	Wardha	Maharashtra	20.5472	78.3247
20	Jenapur	Dec-19	72.36	Kagna	Odisha	20.8897	86.0142
21	K M Vadi	Aug-18	51.16	Lakshman-thirtha	Karnataka	12.3461	76.2878
22	Karathodu	Dec-20	143.15	Kadalundi	Kerala	11.0569	76.0394
23	KHANITAR	Aug-19	80.51	Teesta	Sikkim	27.1778	88.5133
24	Koelwar	Dec-20	143.10	Sone	Bihar	25.5714	84.7947
25	Kulpatanga	Dec-19	78.82	Kharkai	Jharkhand	22.7658	86.1591
26	Lowara	Dec-18	71.55	Shetruni	Gujarat	21.4439	71.5603
27	LUCKNOW	Dec-20	55.03	Gomti	Uttar Pradesh	26.8611	80.9464
28	M.B.P.L.	Dec-19	126.87	Hasdeo	Chattisgarh	22.0131	82.6480
	M.B.P.L.	Dec-19	78.42	Hasdeo	Chattisgarh	22.0131	82.6480
	M.B.P.L.	Dec-19	180.47	Hasdeo	Chattisgarh	22.0131	82.6480

S.No.	Name of Site	Month /year	Chromium (µg/L)	River	State	Latitude	Longitude
29	Mancherial	Apr-19	51.63	Godavari	Telangana	18.8358	79.4447
30	Mankara	Dec-18	127.21	Bharathapuzha	Kerala	10.7611	76.4861
31	Mathura	Dec-20	138.02	Yamuna	Uttar Pradesh	27.4417	77.7150
32	Mohana	Dec-19	54.36	Yamuna	Haryana	28.2242	77.4569
33	Nandira	Dec-19	148.46	Brahmani	Odisha	20.8879	85.2622
34	P.I.L.	Dec-19	89.64	Hasdeo	Chattisgarh	21.9631	82.6812
	P.I.L.	Dec-19	72.44	Hasdeo	Chattisgarh	21.9631	82.6812
35	Pachauli	Dec-20	139.66	Sind	Madhya Pradesh	25.1789	77.6869
36	Patharidih	Aug-18	60.31	Kharun	Chattisgarh	21.3411	81.5939
37	RSP-I	Dec-19	98.57	Brahmani	Odisha	22.2108	84.8733
38	RSP-II	Dec-19	125.47	Brahmani	Odisha	22.3522	84.4592
39	RSP-III	Dec-19	136.86	Brahmani	Odisha	22.3522	84.4592
40	Sangam (Kinnerasani)	Apr-19	60.44	Kinnerasani	Telangana	17.5908	80.8190
41	Shahjina	Dec-20	143.15	Betwa	Uttar Pradesh	25.9500	80.1478
42	Sonapur	Aug-19	120.85	Digaru	Assam	26.1204	91.9784
43	Syohara	Aug-19	51.18	Ramganga	Uttar Pradesh	29.3267	78.7597
44	THERRIAGHAT	Dec-20	64.18	Umsohrynkiev	Meghalaya	25.1800	91.7678
45	THOTTATHINKA DAVU	Dec-20	139.66	Iruvazhinjipuzha	Kerala	11.3620	76.0019
46	Yelli	Apr-19	54.42	Godavari	Maharashtra	19.0439	77.4556



**Figure 8: WQ monitoring stations where Chromium exceeded the acceptable limits**

## Summary of COPPER content in Indian rivers

BIS has recommended 0.05 mg/L (50 µg/L) as acceptable concentration of Copper in drinking water. Total 3107 numbers of water samples were analysed and collected from 688 water quality monitoring stations for Copper content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The Copper concentration varies from 0.00 to 132.64 µg/L. Maximum Copper concentration (132.64 µg/L) was observed at Badlapur water quality monitoring station on Ulhas River during Dec, 2019. From reported data of all River water quality stations, it was found that Copper concentration was above the acceptable limits at 17 sites.

**Table 14** shows the details of stations with respect to their river where Copper concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 9**.

*Table 14: Rivers and WQ monitoring stations where Copper exceeded the acceptable limits.*

S.No.	Name Of Site	Month /Year	Copper (µg/L)	River	State	Latitude	Longitude
1	Badlapur	Dec-19	132.64	Ulhas	Maharashtra	19.1622	73.2544
2	Bansi	Apr-19	53.90	Rapti	Uttar Pradesh	27.1833	82.9325
3	Baridhi	Apr-19	63.39	Subarnarekha	Jharkhand	22.7994	86.2489
4	Durvesh	Apr-19	59.09	Wagh	Maharashtra	19.7131	72.9300
5	Elginbridge	Apr-19	68.04	Ghaghra	Uttar Pradesh	27.0956	81.4839
6	Ghazipur	Dec-20	51.23	Ganga	Uttar Pradesh	25.5697	83.5783
7	Jammu Tawi	Apr-19	55.58	Tawi	Jammu & Kashmir	32.7629	74.8844
8	Jaraikela	Apr-19	87.76	Koel	Odisha	22.3217	85.1047
9	Moradabad	Dec-18	60.97	Ramganga	Uttar Pradesh	28.8267	78.7981
10	Panposh	Apr-19	120.36	Brahmani	Odisha	22.2772	84.8519
11	Raibareli	Dec-19	116.66	Sai	Uttar Pradesh	26.1986	81.2511
12	Satna	Dec-19	102.22	Tons	Madhya Pradesh	24.5333	80.8883
13	Shahjahanpur	Apr-19	114.84	Khannaut	Uttar Pradesh	27.8500	79.9086
14	Sivasagar	Aug-19	71.55	Dikhow	Assam	26.9819	94.5792
15	Triveni	Aug-18	124.03	Gandak	Bihar	27.4363	83.9077
16	Vandiperiyar	Dec-19	70.97	Periyar	Kerala	9.5733	77.0908
17	Yashwant Nagar	Dec-20	51.10	Giri	Himachal Pradesh	30.8867	77.2061

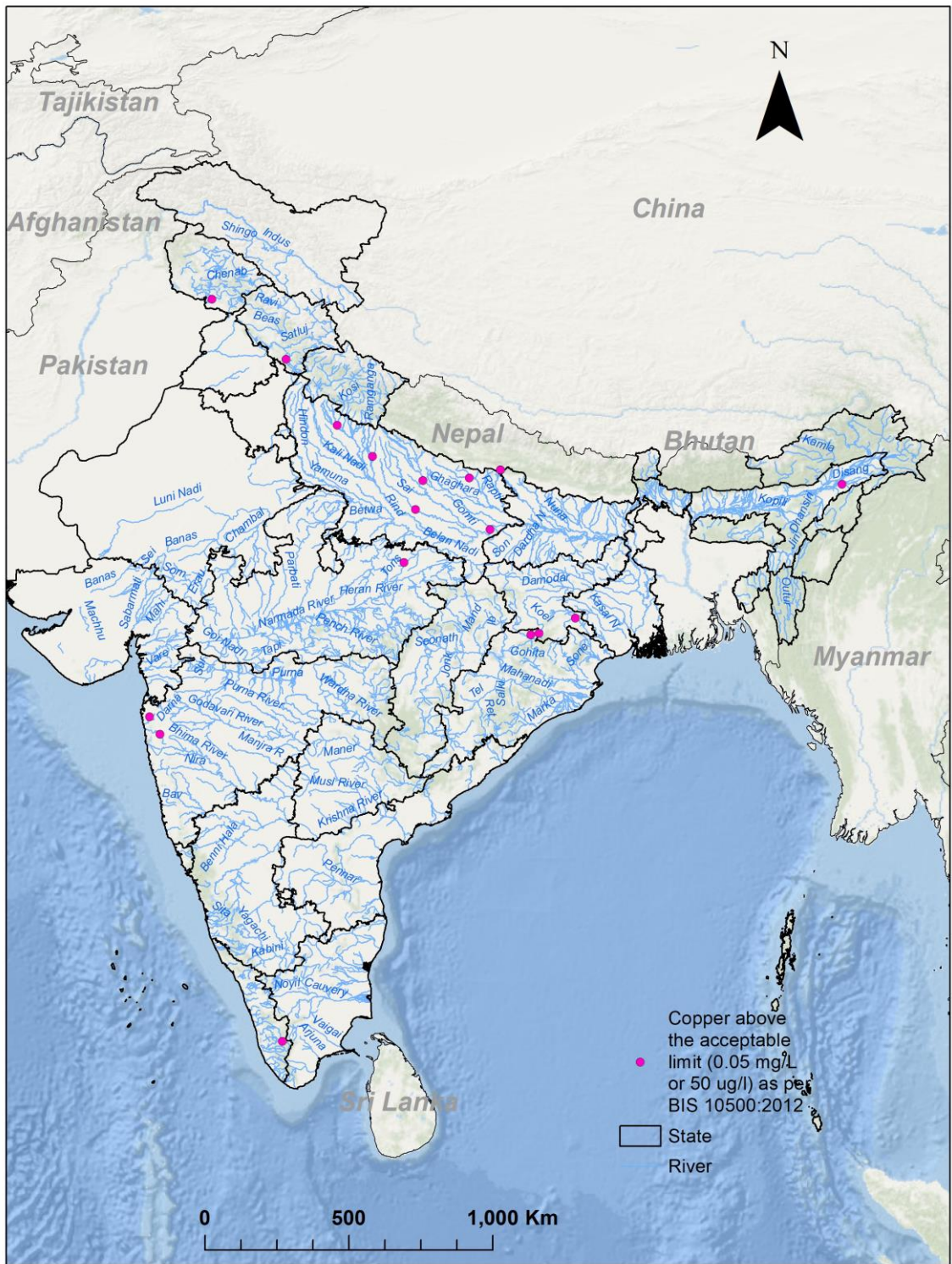


Figure 9: WQ monitoring stations where Copper exceeded the acceptable limits.

## Summary of Lead content in Indian rivers

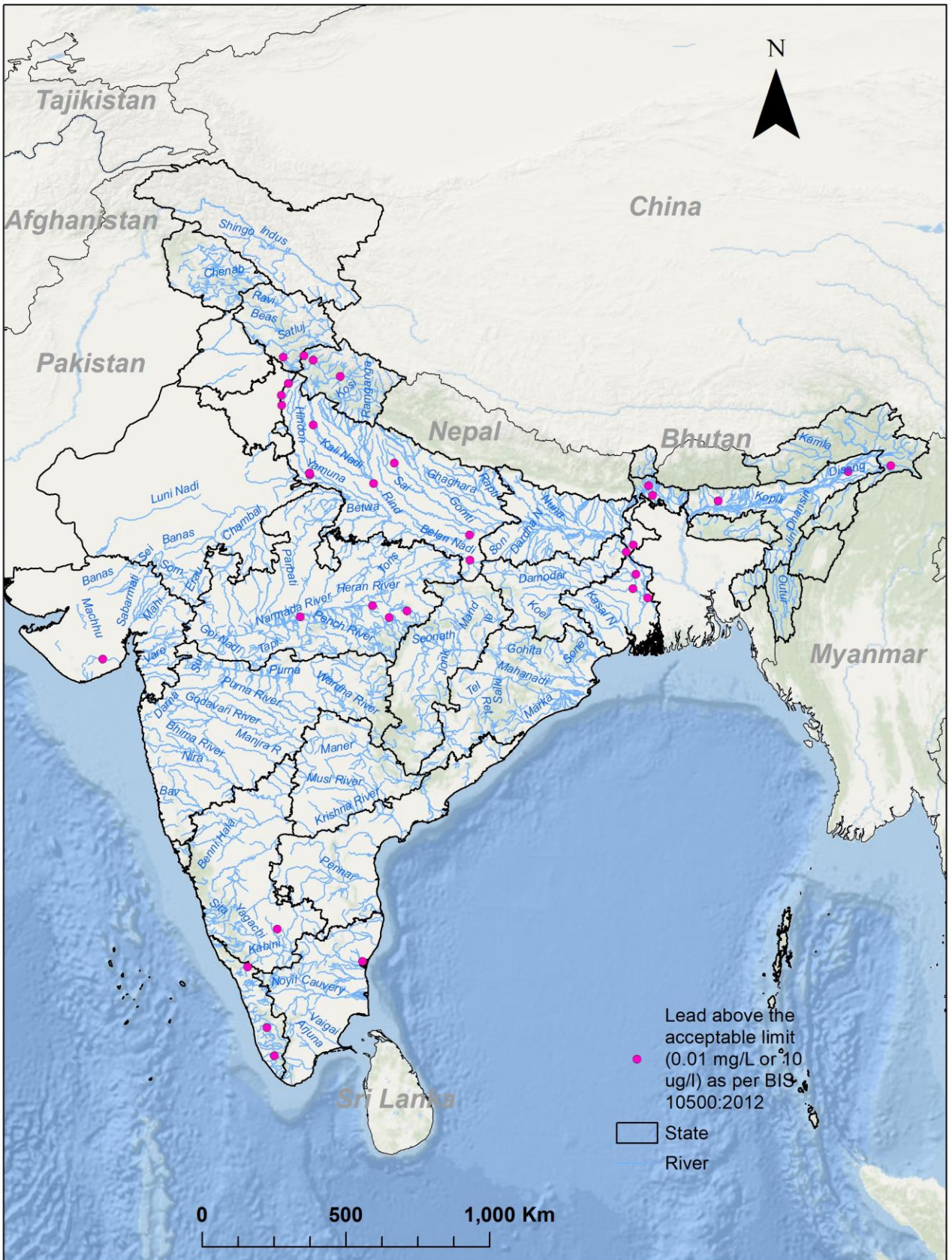
BIS has recommended 0.01 mg/L (10 µg/L) as acceptable concentration of Lead in drinking water. Total 3111 numbers of water samples were analysed and collected from 688 water quality monitoring stations for Lead content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The Lead concentration varies from 0.00 to 67.55 µg/L. Maximum Lead concentration (67.55 µg/L) was observed at Chopan water quality monitoring station on Sone River during May, 2020. From reported data of all River water quality stations, it was found that Lead concentration was above the acceptable limits at 34 sites.

**Table 15** shows the details of stations with respect to their river where Lead concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 10**.

*Table 15: Rivers and WQ monitoring stations where Lead exceeded the acceptable limits.*

S.No.	Name of Site	Month/year	Lead (µg/L)	River	State	Latitude	Longitude
1	Agra (J.B.)	May-20	19.46	Yamuna	Uttar Pradesh	27.2039	78.0350
2	Agra (P.G.)	Aug-19	12.58	Yamuna	Uttar Pradesh	27.2542	78.0231
	Agra (P.G.)	May-20	23.41	Yamuna	Uttar Pradesh	27.2542	78.0231
3	Ankinghat	Aug-18	14.64	Ganga	Uttar Pradesh	26.9347	80.0361
4	Berhampore	Dec-19	26.53	Bhagirathi	West Bengal	24.0911	88.2431
5	Bhalwara	May-20	10.44	Gaur	Madhya Pradesh	23.1147	79.9961
6	CHAKLAGAON	Dec-20	21.01	Manas	Assam	26.3850	90.8069
7	CHEL	Dec-20	17.24	Chel	West Bengal	26.8636	88.6350
8	Chenimari	Aug-18	13.03	Buridehing	Assam	27.3114	94.8825
9	Chopan	May-20	67.55	Sone	Uttar Pradesh	24.5333	83.0500
10	Dindori	May-20	10.09	Narmada	Madhya Pradesh	22.9478	81.0761
11	Domohani	Dec-18	18.81	Teesta	West Bengal	26.5628	88.7583
12	Englishbazar	Dec-19	12.78	Mahananda	West Bengal	25.0113	88.1519
13	Farakka/(HR)	Dec-19	28.60	Feeder Canal	West bengal	24.7953	87.9317
14	Garhmukteshwar	Dec-19	11.23	Ganga	Uttar Pradesh	28.7667	78.1417
15	Hanskhali	Dec-19	10.21	Churni	West Bengal	23.3578	88.6086
16	Hoshangabad	May-20	20.83	Narmada	Madhya Pradesh	22.7561	77.7328
17	Kalanaur	Dec-18	29.76	Yamuna	Uttar Pradesh	30.0694	77.3644
	Kalanaur	Apr-19	19.38	Yamuna	Uttar Pradesh	30.0694	77.3644
18	Karnal	Dec-20	21.33	Yamuna	Haryana	29.6956	77.1428
19	Katwa	Aug-19	17.68	Bhagirathi	West Bengal	23.6436	88.1478
20	Kumarapalayam	Dec-19	13.27	Varahanadhi	Pondicherry	11.9833	79.6806
21	Lowara	Dec-18	30.57	Shetruni	Gujarat	21.4439	71.5603
22	Manakkad	Dec-20	15.57	Thodupuzha	Kerala	9.9088	76.6961
23	Manot	May-20	17.68	Narmada	Madhya Pradesh	22.7358	80.5131
24	Mawi	Apr-19	65.00	Yamuna	Uttar Pradesh	29.3847	77.1556
25	Miao	Aug-19	19.98	Noa-dehing	Arunachal Pradesh	27.4972	96.2187
26	Muthankera	Dec-20	15.25	Kabini	Kerala	11.8083	76.0839
27	NAUGAON	Dec-20	11.01	Yamuna	Uttarakhand	30.7917	78.1353
28	Nellipally	Dec-19	52.63	Kallada	Kerala	9.0279	76.9250
29	Rudraprayag	Jun-20	12.65	Alaknanda	Uttarakhand	30.2875	78.9844
30	Sitapur	Dec-20	10.69	Sarayan	Uttar Pradesh	27.5719	80.6856
31	Thimmanahalli	Aug-18	10.23	Yagachi	Karnataka	12.9825	77.0214
32	Tuini/tons	Apr-19	20.68	Tons	Uttarakhand	30.9397	77.8467
33	Varanasi	May-20	26.71	Ganga	Uttar Pradesh	25.3236	83.0375
34	Yashwant nagar	Apr-19	13.25	Giri	Himachal Pradesh	30.8867	77.2061





**Figure 10: WQ monitoring stations where Lead exceeded the acceptable limits**

## Summary of Nickel content in Indian rivers

BIS has recommended 0.02 mg/L (20 µg/L) as acceptable concentration of Lead in drinking water. Total 3111 numbers of water samples were analysed and collected from 688 water quality monitoring stations for Nickel content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The Nickel concentration varies from 0.00 to 242.90 µg/L. Maximum Nickel concentration (242.90 µg/L) was observed at Elunuthimangalam water quality monitoring station on Noyyal River during Dec, 2020. From reported data of all River water quality stations, it was found that Nickel concentration was above the acceptable limits at 199 sites.

**Table 16** shows the details of stations with respect to their river where Nickel concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 11**.

*Table 16: Rivers and WQ monitoring stations where Nickel exceeded the acceptable limits*

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
1	Agra (J.B.)	Dec-19	20.28	Yamuna	Uttar Pradesh	27.2039	78.0350
2	Agra (P.G.)	Aug-18	28.87	Yamuna	Uttar Pradesh	27.2542	78.0231
3	Ambarampalayam	Aug-18	22.41	Aliyar	Tamil Nadu	10.6303	76.9461
4	Ambari	Dec-20	113.91	Kaljani	West Bengal	26.4164	89.5417
5	Ashti	Aug-18	110.13	Wainganga	Maharashtra	19.6867	79.7839
6	Auraiya	Aug-19	20.30	Yamuna	Uttar Pradesh	26.4272	79.4181
7	Ayodhya	Apr-19	26.90	Ghaghra	Uttar Pradesh	26.8136	82.2078
8	Bachhwara	Dec-20	22.80	Gaya	Bihar	25.5747	85.8887
9	Badar Pur Ghat	Dec-18	28.52	Barak	Assam	24.8733	92.5167
10	Badlapur	Dec-19	24.97	Ulhas	Maharashtra	19.1622	73.2544
11	Baghpat	Aug-18	30.31	Yamuna	Uttar Pradesh	28.9397	77.2064
12	Balrampur	Apr-19	61.46	Rapti	Uttar Pradesh	27.4500	82.2125
	Balrampur	Jun-20	24.55	Rapti	Uttar Pradesh	27.4500	82.2125
13	Bamni	Aug-18	70.65	Wardha	Maharashtra	19.8139	79.3794
	Bamni	Apr-19	54.76	Wardha	Maharashtra	19.8139	79.3794
14	BANGLABASTI	Dec-19	26.39	Koa	Assam	26.1991	92.6726
15	Bansi	Apr-19	31.31	Rapti	Uttar Pradesh	27.1833	82.9325
16	BANTWAL	Dec-20	27.26	Nethravathi	Karnataka	12.8808	75.0411
17	Bareilly	Apr-19	24.07	Ramganga	Uttar Pradesh	28.2992	79.3667
	Bareilly	Jun-20	22.99	Ramganga	Uttar Pradesh	28.2992	79.3667
18	Baridhi	Dec-19	40.27	Subarnarekha	Jharkhand	22.7994	86.2489
19	Basti	Apr-19	37.94	Kwano	Uttar Pradesh	26.7839	82.7131
20	BASTI U/S	Dec-20	77.10	Kwano	Uttar Pradesh	26.7974	82.7078
21	Bawapuram	Jul-20	24.78	Tungabhadra	Andhra Pradesh	15.8833	77.9572
22	Belkheri	Dec-19	26.58	Sher	Madhya Pradesh	22.9278	79.3397
23	Bhadrachalam	Aug-19	45.79	Godavari	Telangana	17.6681	80.8772
	BHADRACHALAM	Sep-20	23.45	Godavari	Telangana	17.6681	80.8772
24	Bhatpalli	Aug-18	41.13	Peddavagu	Telangana	19.3303	79.5042
25	Bhitaura	Apr-19	20.14	Ganga	Uttar Pradesh	26.0431	80.8542

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
	Bhitora	Jun-20	21.51	Ganga	Uttar Pradesh	26.0431	80.8542
26	Biligundulu	Aug-18	23.77	Cauvery	Tamil Nadu	12.1822	77.7239
	Biligundulu	Aug-19	20.51	Cauvery	Tamil Nadu	12.1822	77.7239
27	Birdghat	Apr-19	36.57	Rapti	Uttar Pradesh	26.7444	83.3400
28	Boudh	Dec-19	20.69	Mahanadi	Odisha	20.8550	84.3167
29	Buxar	Dec-18	20.80	Ganga	Bihar	25.5769	83.9756
30	Byaladahalli	Dec-20	106.26	Tunga	Karnataka	14.4339	75.7797
31	C.R.B.	Dec-19	25.64	Hasdeo	Chattisgarh	22.0244	82.6417
	C.R.B.	Dec-19	74.17	Hasdeo	Chattisgarh	22.0244	82.6417
	C.R.B.	Dec-19	49.58	Hasdeo	Chattisgarh	22.0244	82.6417
32	Champasari	Apr-19	39.68	Mahananda	West Bengal	26.7392	88.4228
33	Chandwada	Dec-19	22.54	Orsang	Gujarat	22.0500	73.4661
	CHANDWADA	Dec-20	45.52	Orsang	Gujarat	22.0500	73.4661
34	Chindnar	Aug-19	28.59	Indravati	Chattisgarh	19.0794	81.3011
35	Chopan	Dec-19	20.04	Sone	Uttar Pradesh	24.5333	83.0500
36	Chunchankatte	Dec-20	27.13	Cauvery	Karnataka	12.5067	76.3008
37	CORONATION	Dec-20	40.38	Teesta	West Bengal	26.9025	88.4731
38	Dabri	Apr-19	21.77	Ramganga	Uttar Pradesh	27.4958	79.6972
39	Dameracherla	Jul-20	24.06	Musi	Telangana	16.7392	79.6697
40	Delhi Rly Bridge	Aug-18	33.80	Yamuna	Delhi	28.6625	77.2467
	Delhi Rly Bridge	Aug-19	54.58	Yamuna	Delhi	28.6625	77.2467
	Delhi Rly Bridge	Dec-19	60.54	Yamuna	Delhi	28.6625	77.2467
	Delhi Rly Bridge	Dec-19	23.54	Yamuna	Delhi	28.6625	77.2467
	Delhi Rly Bridge	Dec-20	25.88	Yamuna	Delhi	28.6625	77.2467
41	Deoprayag(G)	Aug-18	103.05	Ganga	Uttarakhand	30.1414	78.5969
	Deoprayag(G)	Dec-18	22.10	Ganga	Uttarakhand	30.1414	78.5969
42	DEOSUGUR	Jul-20	22.41	Krishna	Karnataka	16.3822	77.3572
43	Derol Bridge	Dec-19	77.01	Sabarmati	Gujarat	23.5764	72.8069
44	Dhamkund	Dec-18	38.60	Chenab	Jammu & Kashmir	33.2431	75.1458
45	Dhaneta	Jun-20	32.20	Bahgul	Uttar Pradesh	28.4231	79.8108
46	Dholabazar	Dec-20	55.91	Lohit	Assam	27.7900	95.6006
47	DIANA	Dec-20	62.43	Diana	West Bengal	26.8614	89.0011
48	Dibrugarh	Dec-20	25.75	Brahmaputra	Assam	27.4989	94.8558
49	Dillighat	Dec-20	41.91	Desang	Assam	27.1400	95.3700
50	Durvesh	Apr-19	38.97	Wagh	Maharashtra	19.7131	72.9300
	Durvesh	Dec-19	32.54	Wagh	Maharashtra	19.7131	72.9300
	Durvesh	Dec-20	37.34	Wagh	Maharashtra	19.7131	72.9300
51	Elunuthimangalam	Aug-19	30.65	Noyyal	Tamil Nadu	11.0317	77.8875
	Elunuthimangalam	Dec-20	96.63	Noyyal	Tamil Nadu	11.0317	77.8875
	Elunuthimangalam	Dec-20	208.36	Noyyal	Tamil Nadu	11.0317	77.8875
	Elunuthimangalam	Dec-20	242.90	Noyyal	Tamil Nadu	11.0317	77.8875
52	Etawah	Aug-19	21.42	Yamuna	Uttar Pradesh	26.7500	78.9833
53	Gadat	Dec-19	34.97	Ambika	Gujarat	20.8581	72.9850

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
	GADAT	Dec-20	27.60	Ambika	Gujarat	20.8581	72.9850
54	Galeta	Aug-18	33.59	Hindon	Uttar Pradesh	29.0756	77.4625
	Galeta	Aug-19	33.69	Hindon	Uttar Pradesh	29.0756	77.4625
55	GANDLAPET	Sep-20	45.36	Peddavagu	Telangana	18.8289	78.4367
56	Ganguwala	Dec-19	20.68	Yamuna/Bata	Himachal Pradesh	30.4369	77.5786
57	Ganod	Dec-18	32.38	Bhadar	Gujarat	21.6647	70.1811
58	Gatora-I	Dec-19	25.45	Arpa	Chattisgarh	22.0903	82.1501
59	Gatora-II	Dec-19	20.69	Arpa	Odisha	22.0714	82.1886
60	Ghat	Apr-19	68.70	Sarju	Uttarakhand	29.5000	80.1278
61	Ghatora	Dec-19	22.44	Arpa	Chattisgarh	22.0567	82.2194
62	Ghatsila	Apr-19	69.30	Subarnarekha	Jharkhand	22.5806	86.4683
63	Ghazipur	Dec-20	33.49	Ganga	Uttar Pradesh	25.5697	83.5783
64	GOLOKGANJ	Dec-20	96.76	Sankosh	Assam	26.1072	89.8225
65	Gummanur	Dec-18	20.27	Ponnaiyar	Tamil Nadu	12.5550	78.1386
	Gummanur	Dec-20	62.30	Ponnaiyar	Tamil Nadu	12.5550	78.1386
	Gummanur	Dec-20	57.55	Ponnaiyar	Tamil Nadu	12.5550	78.1386
66	Gumrabazar	Dec-19	34.25	Surma	Assam	25.0119	92.5100
67	HARANGAJAO	Dec-20	33.82	Jatinga	Assam	25.1161	92.8531
68	Haridwar	Dec-18	30.16	Ganga	Uttarakhand	29.9450	78.1653
69	HARIDWAR D/S	Dec-19	38.54	Ganga	Uttarakhand	29.9628	78.1731
70	Hariharapura	Dec-20	44.42	Tunga	Karnataka	13.5222	75.3033
71	Harlahalli	Dec-20	20.95	Tungabhadra	Karnataka	14.8306	75.7228
72	Hivra	Aug-18	46.69	Wardha	Maharashtra	20.5472	78.3247
73	Honnali	Dec-20	73.66	Tungabhadra	Karnataka	14.2372	75.6625
74	Jagdapur	Aug-18	51.95	Indravati	Chattisgarh	19.1081	82.0228
	Jagdapur	Sep-20	46.83	Indravati	Chattisgarh	19.1081	82.0228
75	Jamshedpur	Dec-19	42.87	Subarnarekha	Jharkhand	22.8156	86.2161
76	Jamsholaghat	Apr-19	63.89	Subarnarekha	Odisha	22.2197	86.7167
77	Jenapur	Apr-19	55.80	Kagna	Odisha	20.8897	86.0142
78	Jhanjharpur	Dec-20	34.46	Kamla-Balan	Bihar	26.2266	86.2561
79	Kabirganj	Apr-19	67.96	Sarda	Uttar Pradesh	28.5000	80.3792
	Kabirganj	Jun-20	24.55	Sarda	Uttar Pradesh	28.5000	80.3792
80	Kailash Mandir Benpur U/S of Agra	Dec-18	34.05	Yamuna	Uttar Pradesh	27.2361	77.9306
	Kailash Mandir Benpur U/S of Agra	Dec-19	37.24	Yamuna	Uttar Pradesh	27.2361	77.9306
81	KALPI	Dec-20	77.23	Yamuna	Uttar Pradesh	26.2000	79.7000
82	KAMPUR	Dec-20	41.98	Kopili	Assam	26.1531	92.6564
83	Kannauj	Apr-19	21.68	Kali	Uttar Pradesh	27.0127	79.9841
84	Kanpur	Apr-19	37.87	Ganga	Uttar Pradesh	26.4694	80.3764
85	Karnal	Dec-20	33.95	Yamuna	Haryana	29.6956	77.1428
86	Kasganj	Apr-19	26.73	Kali	Uttar Pradesh	27.7879	78.6253
87	KEESARA	Aug-19	33.84	Munneru	Andhra Pradesh	16.7156	80.3164
88	Keolari	Aug-18	49.55	Wainganga	Madhya Pradesh	22.3819	79.9000
	KEOLARI	Dec-20	24.48	Wainganga	Madhya Pradesh	22.3819	79.9000

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
					desh		
89	Kesinga	Dec-19	20.54	Tel	Odisha	20.2039	83.2231
90	Khanpur	Dec-18	52.40	Mahi	Gujarat	22.5347	73.1408
	Khanpur	Dec-19	45.16	Mahi	Gujarat	22.5347	73.1408
91	KHARKHANA	Dec-20	53.78	Myntdu	Meghalaya	25.1583	92.2144
92	KIRTINAGAR D/S	Dec-19	36.98	Alkananda	Uttarakhand	30.2289	78.7297
	KIRTINAGAR D/S	Dec-20	76.09	Alkananda	Uttarakhand	30.2289	78.7297
93	Kogaon	Aug-19	22.58	Kundi	Madhya Pradesh	22.1014	75.6842
94	Kokiwada	Dec-20	73.79	Pench	Madhya Pradesh	21.8977	79.2344
95	Kokkedoddy	Dec-20	27.43	Arkavathy	Karnataka	12.2961	77.4403
96	KONTA	Sep-20	93.98	Sabari	Chattisgarh	17.7989	81.3928
97	KOPERGAON	Sep-20	33.97	Godavari	Maharashtra	19.8783	74.4819
98	Korba	Dec-19	23.54	Hasdeo	Chattisgarh	22.3583	82.6875
99	Korba 1	Dec-19	32.54	Hasdeo	Chattisgarh	22.3416	82.6886
100	Koteshwar	Aug-18	48.50	Bhagirath	Uttarakhand	30.3308	78.4883
101	Kumhari	Apr-19	48.97	Wainganga	Madhya Pradesh	21.8842	80.1750
	Kumhari	Dec-20	40.48	Wainganga	Madhya Pradesh	21.8842	80.1750
102	Lakhoura	Dec-20	30.64	Kachhua	Bihar	25.7150	85.6300
103	Lalpur	Dec-20	42.04	Sengar	Uttar Pradesh	26.2714	79.9500
104	LAVEN	Dec-20	130.57	Teesta	Sikkim	27.5375	88.4944
105	Lodhikheda	Dec-20	21.24	Jam	Madhya Pradesh	21.5792	78.8655
106	Lowara	Dec-18	106.24	Shetruni	Gujarat	21.4439	71.5603
	Lowara	Dec-19	25.14	Shetruni	Gujarat	21.4439	71.5603
107	Lucknow	Apr-19	20.60	Gomti	Uttar Pradesh	26.8611	80.9464
108	Lupungdih	Dec-19	28.36	Subarnarekha	Odisha	22.3497	87.4967
109	M.B.P.L.	Dec-19	36.54	Hasdeo	Chattisgarh	22.0131	82.6480
	M.B.P.L.	Dec-19	54.88	Hasdeo	Chattisgarh	22.0131	82.6480
	M.B.P.L.	Dec-19	36.57	Hasdeo	Chattisgarh	22.0131	82.6480
110	M.H. Halli	Aug-19	21.12	Hemavati	Karnataka	12.8189	76.1333
111	MACHAIGAON (krishna Bihari)	Dec-19	25.68	Dirai	Assam	27.7542	94.7881
112	Madhira	Aug-19	71.73	Wyra	Telangana	16.9181	80.3558
113	Mahuwa	Dec-19	20.65	Purna	Gujarat	21.0158	73.1356
114	Maighat	Dec-20	43.81	Gomti	Uttar Pradesh	25.6436	82.8467
115	Mankara	Dec-18	23.08	Bharathapuzha	Kerala	10.7611	76.4861
	MANKARA	Dec-20	22.36	Bharathapuzha	Kerala	10.7611	76.4861
116	Mantralayam	Aug-18	25.53	Tungabhadra	Andhra Pradesh	15.9483	77.4264
117	Mataji	Dec-18	25.06	Mahi	Madhya Pradesh	23.3497	74.7178
118	Mathanguri	Dec-20	20.29	Beki	Assam	26.7819	90.9572
119	Mathura	Aug-18	24.93	Yamuna	Uttar Pradesh	27.4417	77.7150
	Mathura	Aug-19	29.54	Yamuna	Uttar Pradesh	27.4417	77.7150
	Mathura	Dec-19	29.68	Yamuna	Uttar Pradesh	27.4417	77.7150

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
	Mathura	Dec-19	29.64	Yamuna	Uttar Pradesh	27.4417	77.7150
	Mathura	Dec-20	22.90	Yamuna	Uttar Pradesh	27.4417	77.7150
	Mathura	Dec-20	56.04	Yamuna	Uttar Pradesh	27.4417	77.7150
120	MOHANA	Aug-18	22.18	Yamuna	Haryana	28.2242	77.4569
	Mohana	Aug-19	23.45	Yamuna	Haryana	28.2242	77.4569
121	Moradabad	Apr-19	49.75	Ramganga	Uttar Pradesh	28.8267	78.7981
122	Motinaroli	Dec-19	20.14	Kim	Gujarat	21.4044	72.9625
123	Mungoli	Dec-20	25.39	Penganga	Maharashtra	19.8650	79.1261
124	Murappanadu	Aug-18	163.90	Tambraparni	Tamil Nadu	8.7144	77.8350
	Murappanadu	Aug-19	60.64	Tambraparni	Tamil Nadu	8.7144	77.8350
	Murappanadu	Dec-20	212.37	Tambraparni	Tamil Nadu	8.7144	77.8350
125	Musiri	Dec-18	26.71	Cauvery	Tamil Nadu	10.9433	78.4350
	Musiri	Aug-19	49.65	Cauvery	Tamil Nadu	10.9433	78.4350
126	Naharkatia	Dec-20	22.77	Buridehing	Assam	27.3003	95.3306
127	Nanded	Dec-20	76.22	Godavari	Maharashtra	19.1417	77.3203
128	Nandgaon	Aug-18	44.87	Wunna	Maharashtra	20.5255	78.8088
129	Nandira	Apr-19	60.37	Brahmani	Odisha	20.8879	85.2622
130	Nellipally	Dec-20	42.11	Pamba	Kerala	9.0279	76.9250
131	Nowrangpur	Aug-18	29.89	Indravati	Odisha	19.1975	82.5119
132	Odenthurai	Aug-19	28.35	Kallar	Tamil Nadu	11.3218	76.8928
133	P.G.Bridge	Aug-18	40.09	Penganga	Maharashtra	19.8175	78.5778
134	P.I.L.	Dec-19	64.25	Hasdeo	Chattisgarh	21.9631	82.6812
	P.I.L.	Dec-19	64.87	Hasdeo	Chattisgarh	21.9631	82.6812
	P.I.L.	Dec-19	22.47	Hasdeo	Chattisgarh	21.9631	82.6812
135	Pachauli	Dec-20	53.91	Sind	Madhya Pradesh	25.1789	77.6869
136	Paderdibadi	Dec-18	56.76	Mahi	Rajasthan	23.7594	74.1333
	Paderdibadi	Dec-19	49.52	Mahi	Rajasthan	23.7594	74.1333
137	Paleru Bridge	Aug-18	20.53	Paleru	Andhra Pradesh	16.9489	80.0478
138	Paliakalan	Apr-19	28.35	Sharda	Uttar Pradesh	28.3833	80.5500
139	Palla	Aug-18	71.70	Yamuna	Delhi	28.8294	77.2242
140	Panbari	Aug-19	20.39	Manas	Assam	26.5917	90.8290
141	Pancharatna	Dec-19	20.50	Brahmaputra	Assam	26.2094	90.5533
142	PATACHARKUCHI	Dec-19	65.81	Kalodiya	Assam	26.5053	91.2364
143	Patansaongi	Dec-20	32.67	Chandrabhaga	Maharashtra	21.3211	79.0247
144	Pathagudem	Aug-18	34.75	Indravati	Chattisgarh	18.8525	80.3494
	Pathagudem	Dec-20	24.44	Indravati	Chattisgarh	18.8525	80.3494
145	Pingalwada	Dec-19	33.25	Dhadhar(Independent river)	Gujarat	22.1108	73.0786
	Pingalwada	Dec-20	71.97	Dhadhar(Independent river)	Gujarat	22.1108	73.0786
146	Polavaram	Aug-18	61.48	Godavari	Andhra Pradesh	17.2519	81.6564
147	Pratappur	Aug-18	20.39	Pravara	Maharashtra	19.3583	74.3842
	Pratappur	Aug-19	29.90	Pravara	Maharashtra	19.3583	74.3842
148	Prem Nagar	Dec-18	45.53	Chenab	Jammu & Kashmir	33.1554	75.7035

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
149	Purna	Aug-18	77.89	Purna	Maharashtra	19.1758	77.0131
150	Rajim	Dec-19	48.24	Mahanadi	Chattisgarh	20.9736	81.8783
151	Ramakona	Aug-18	54.71	Kanhan	Madhya Pradesh	21.7189	78.8242
	Ramakona	Dec-20	26.03	Kanhan	Madhya Pradesh	21.7189	78.8242
152	RAMDIA	Dec-19	46.77	Kolong	Assam	26.2556	91.4726
153	Rammunshi Bagh	Dec-18	35.16	Jhelum	Jammu & Kashmir	34.0631	74.8344
154	Rangeli	Dec-18	73.13	som	Rajasthan	23.8728	74.2236
	Rangeli	Dec-19	65.89	som	Rajasthan	23.8728	74.2236
155	RANGPO	Dec-20	36.66	Rangpochu	Sikkim	27.1722	88.5297
156	Reguali	Apr-19	29.95	Ghaghra	Uttar Pradesh	26.7592	83.2906
157	Renukaji	Dec-20	20.42	Giri	Himachal Pradesh	30.6044	77.4411
158	RIRIGAON (Kuraua bahi)	Dec-19	33.64	Dhansiri (S)	Assam	26.6733	93.6915
159	Rishikesh	Dec-18	22.34	Ganga	Uttarakhand	30.1008	78.3039
160	RISHIKESH D/S	Dec-19	28.34	Ganga	Uttarakhand	30.0758	78.2869
161	Rothak (Jorthang)	Dec-20	35.60	Rangit	Sikkim	27.1717	88.2994
162	Safapora	Dec-18	39.10	Jhelum	Jammu & Kashmir	34.2956	74.6247
163	SAGBARI	Dec-20	57.68	Teesta	Sikkim	27.2547	88.3050
164	Sakmur	Aug-18	54.41	Wardha	Maharashtra	19.5605	79.6152
	Sakmur	Apr-19	20.20	Wardha	Maharashtra	19.5605	79.6152
	Sakmur	Dec-20	42.21	Wardha	Maharashtra	19.5605	79.6152
165	Sakra	Dec-20	30.90	Burhi Gandak	Bihar	26.0401	85.5574
166	Saloor	Sep-20	33.87	Manjira	Telangana	18.7918	77.8339
167	Samdoli	Aug-19	20.58	Varna	Maharashtra	16.8550	74.4967
168	Sangam (Kinnerasani)	Aug-19	23.73	Kinnerasani	Telangana	17.5908	80.8190
	Sangam(Kinnerasani)	Sep-20	45.63	Kinnerasani	Telangana	17.5908	80.8190
169	SANKOSH LRP	Apr-19	39.26	Sankosh	West Bengal	26.4578	89.8581
	SANKOSH LRP	Dec-20	42.55	Sankosh	West Bengal	26.4578	89.8581
170	SATPULI D/S	Dec-19	27.04	Nayar	Uttarakhand	29.9375	78.7022
171	Shastri Bridge	Dec-20	64.62	Ganga	Uttar Pradesh	25.4366	81.8892
172	Shimoga	Dec-20	53.22	Tunga	Karnataka	13.9269	75.5850
173	SILGHAT	Dec-19	23.64	Brahmaputra	Assam	26.6181	92.9414
174	Singasadanapalli	Aug-18	152.91	Ponnaiyar	Tamil Nadu	12.8671	77.8408
	Singasadanapalli	Dec-20	35.47	Ponnaiyar	Tamil Nadu	12.8671	77.8408
175	Singavaram	Dec-20	56.58	Chitravathi	Andhra Pradesh	14.5978	78.0133
176	Srinagar	Dec-20	24.31	Alaknanda	Uttarakhand	30.2258	78.7756
177	T.Ramapuram	Aug-18	40.00	Hagari	Karnataka	15.6611	76.9628
	T.Ramapuram	Sep-20	28.81	Hagari	Karnataka	15.6611	76.9628
178	tal	Aug-18	26.15	Chambal	Madhya Pradesh	23.7233	75.3469
179	TeestaBazar	Apr-19	37.39	Teesta	West Bengal	27.0500	88.4269
180	Tekra	Aug-18	31.29	Pranhita	Maharashtra	18.9783	79.9469

S.No.	Name of Site	Month /year	Nickel (µg/L)	River	State	Latitude	Longitude
	Tekra	Dec-20	20.26	Pranhita	Maharashtra	18.9783	79.9469
181	Tezu	Dec-20	22.23	Lohit	Arunachal Pradesh	27.9108	96.1706
182	THENGUMARAHADA	Dec-20	130.44	Moyar	Tamil Nadu	11.5728	76.9192
183	Theni	Dec-19	23.02	Suruliar	Tamil Nadu	10.0011	77.4850
	THENI	Dec-20	40.25	Suruliar	Tamil Nadu	10.0011	77.4850
184	Thumpamon	Dec-19	23.69	Achankovil	Kerala	9.2250	76.7147
185	Tufanganj	Apr-19	38.02	Raidak-i	West Bengal	26.3089	89.6756
186	Turtipar	Apr-19	23.05	Ghaghra	Uttar Pradesh	26.1667	83.8636
187	Ujjain	Aug-18	21.19	Shipra	Madhya Pradesh	23.1683	75.7711
	Ujjain	Aug-19	28.59	Shipra	Madhya Pradesh	23.1683	75.7711
188	Upper Rimbi	Dec-20	59.91	Rimbikhola	Sikkim	27.3308	88.1519
189	Urachikottai	Dec-20	42.42	Cauvery	Tamil Nadu	11.4778	77.7000
	Urachikottai	Dec-20	113.78	Cauvery	Tamil Nadu	11.4778	77.7000
	Urachikottai	Dec-20	27.44	Cauvery	Tamil Nadu	11.4778	77.7000
190	Uttarkashi	Aug-18	98.19	Bhagirath	Uttarakhand	30.7283	78.4461
	Uttarkashi	Dec-18	31.95	Bhagirath	Uttarakhand	30.7283	78.4461
	Uttarkashi	Dec-19	23.48	Bhagirath	Uttarakhand	30.7283	78.4461
191	Vandiperiyar	Dec-19	26.65	Periyar	Kerala	9.5733	77.0908
192	Vapi	Dec-18	30.90	Damanganga	Gujarat	20.3389	72.9117
193	Vautha	Dec-18	84.25	Sabarmati	Gujarat	22.6503	72.5331
	Vautha	Dec-19	99.00	Sabarmati	Gujarat	22.6503	72.5331
194	Vijayawada	Dec-20	56.71	Krishna	Andhra Pradesh	16.5011	80.6250
195	Wadenapally	Aug-18	23.93	Krishna	Telangana	16.7942	80.0692
	Wadenapally	Aug-19	55.32	Krishna	Telangana	16.7942	80.0692
196	Wairagarh	Aug-18	34.61	Khobragarhi	Maharashtra	20.4219	80.0917
197	Yadgir	Aug-18	25.53	Bhima	Karnataka	16.7375	77.1253
198	Yashwant Nagar	Aug-19	20.54	Giri	Himachal Pradesh	30.8867	77.2061
199	YUKSUM	Dec-20	27.57	Rothangchu	Sikkim	27.3678	88.2069



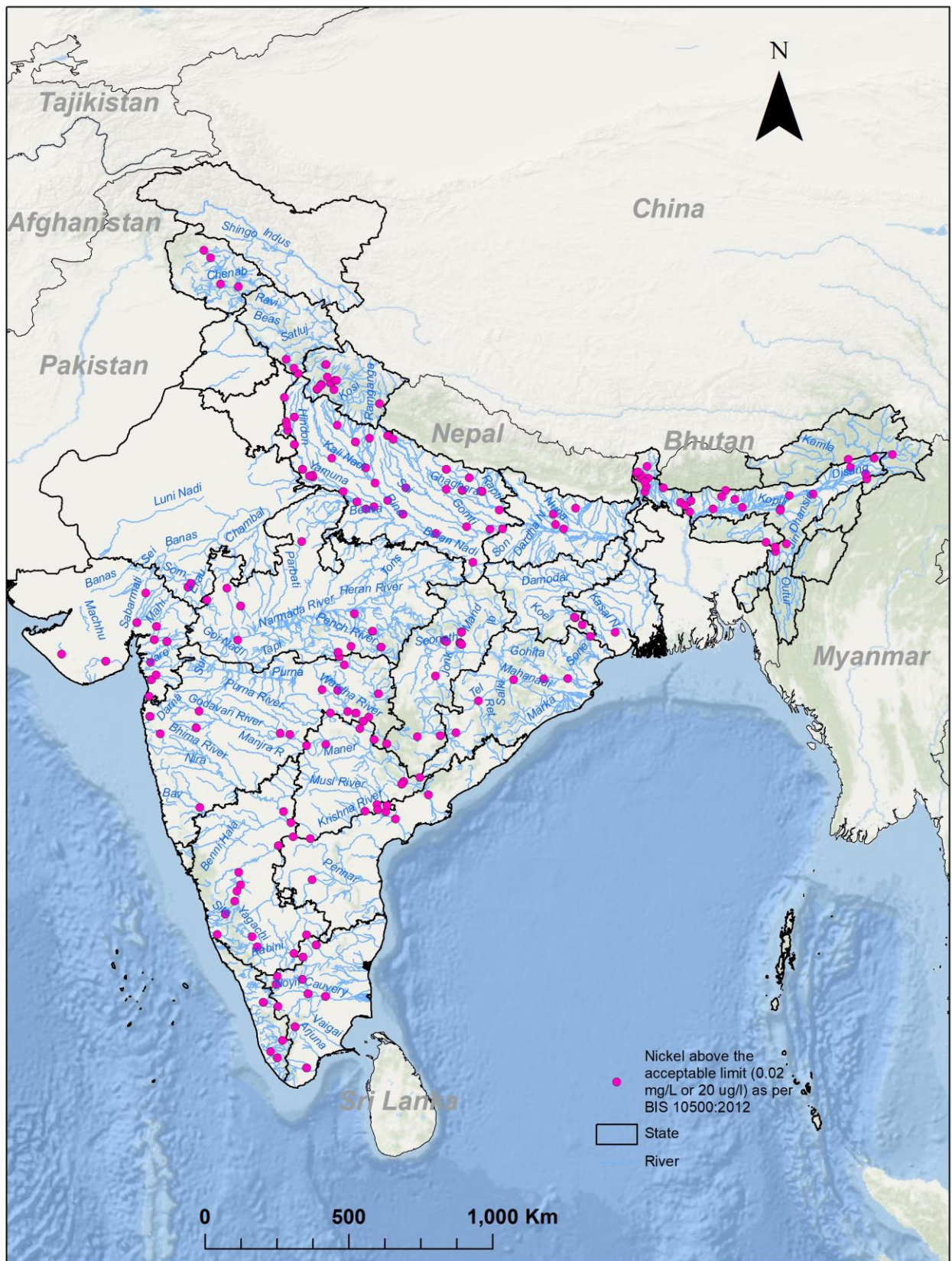


Figure 11: WQ monitoring stations where Nickel exceeded the acceptable limits.

## Summary of Iron content in Indian rivers

BIS has recommended 0.3 mg/L (300 µg/L) as acceptable concentration of Iron in drinking water. Total 3111 numbers of water samples were analysed and collected from 688 water quality monitoring stations for Iron content in Indian Rivers during the period Aug, 2018 to Dec, 2020. The Iron concentration varies from 0.00 to 11.24 mg/L. Maximum Iron concentration (11.24 mg/L) was observed at Farakka/(HR) water quality monitoring station on Feeder Canal during Aug, 2019. From reported data of all River water quality stations, it was found that Iron concentration was above the acceptable limits at sites.

**Table 17** shows the details of stations with respect to their river where Iron concentration exceeded the acceptable limits. WQ monitoring station is also shown in GIS map as **Figure 12**.

*Table 17: Rivers and WQ monitoring stations where Iron exceeded the acceptable limits*

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
1	Abu Road	Aug-18	1.67	Banas	Rajasthan	24.4939	72.7917
	Abu Road	Aug-19	1.96	Banas	Rajasthan	24.4939	72.7917
2	Adityapur	Aug-18	0.50	Kharkai	Jharkhand	22.7914	86.1736
	Adityapur	Aug-19	0.70	Kharkai	Jharkhand	22.7914	86.1736
	Adityapur	Jun-20	1.06	Kharkai	Jharkhand	22.7914	86.1736
3	Aie NH Crossing	Jun-20	0.57	Aie	Assam	26.4975	90.6547
4	Akabarpur	Aug-19	1.08	Chhoti Sarju	Uttar Pradesh	26.4303	82.5619
	Akabarpur	Dec-20	0.61	Chhoti Sarju	Uttar Pradesh	26.4303	82.5619
5	Akhuapada	Jun-20	0.95	Baitarni	Odisha	20.9156	86.2747
6	Altuma	Aug-18	0.34	Ramyala	Odisha	20.9297	85.5189
	Altuma	Jun-20	0.94	Ramyala	Odisha	20.9297	85.5189
7	Amarpur	Aug-19	0.60	Gumti	Tripura	23.5244	91.6514
8	Ambarampalayam	Aug-19	0.31	Aliyar	Tamil Nadu	10.6303	76.9461
9	Ambari	Aug-19	0.83	Kaljani	West Bengal	26.4164	89.5417
10	Ambgaon ( Bagdi)	Aug-19	0.41	Chulband	Maharashtra	20.7783	79.8513
	Ambgaon ( Bagdi)	Dec-20	1.57	Chulband	Maharashtra	20.7783	79.8513
11	Amraghat	Aug-19	0.67	Sonai	Assam	24.6678	92.8924
	Amraghat	Dec-20	0.92	Sonai	Assam	24.6678	92.8924
12	Anakapalli	Jun-20	0.90	Sarada	Andhra Pradesh	17.6800	83.0200
13	Anandpur	Jun-20	0.85	Baitarni	Odisha	21.2111	86.1206
14	Ankinghat	Aug-18	0.36	Ganga	Uttar Pradesh	26.9347	80.0361
	Ankinghat	Jun-20	0.84	Ganga	Uttar Pradesh	26.9347	80.0361
15	Anna Purna Ghat	May-20	0.46	Barak	Assam	24.8189	92.7917
	Anna Purna Ghat	Jun-20	0.60	Barak	Assam	24.8189	92.7917
16	Aradei	Jun-20	0.98	Aradei	Odisha	20.8595	86.4023
17	Arangaly	Dec-19	0.42	Chalakydy	Kerala	10.2814	76.3153
18	Ashramam	Dec-18	0.38	Pazhayar	Tamil Nadu	8.1593	77.4597
	Ashramam	Dec-19	1.21	Pazhayar	Tamil Nadu	8.1593	77.4597
	Ashramam	Dec-19	1.22	Pazhayar	Tamil Nadu	8.1593	77.4597
19	Ashti	Aug-19	0.64	Wainganga	Maharashtra	19.6867	79.7839
20	Auraiya	May-20	0.75	Yamuna	Uttar Pradesh	26.4272	79.4181
21	Avershe	Dec-19	0.35	Seetha	Karnataka	13.5214	74.8800
22	Ayilam	Dec-18	0.35	Vamanapuram	Kerala	8.7150	76.8500
	Ayilam	Dec-19	0.72	Vamanapuram	Kerala	8.7150	76.8500
	Ayilam	Dec-19	3.34	Vamanapuram	Kerala	8.7150	76.8500
23	Ayodhya	Dec-19	0.57	Ghaghra	Uttar Pradesh	26.8136	82.2078
	Ayodhya	Jun-20	0.82	Ghaghra	Uttar Pradesh	26.8136	82.2078

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
24	Azmabad	Dec-18	0.59	Ganga	Bihar	25.3275	87.2597
	Azmabad	Aug-19	1.01	Ganga	Bihar	25.3275	87.2597
25	Badar Pur Ghat	May-20	0.41	Barak	Assam	24.8733	92.5167
	Badar Pur Ghat	Jun-20	0.61	Barak	Assam	24.8733	92.5167
26	Badatighat	Dec-18	0.35	Subansiri	Assam	26.9347	93.9622
	Badatighat	Apr-19	2.50	Subansiri	Assam	26.9347	93.9622
	Badatighat	Aug-19	6.10	Subansiri	Assam	26.9347	93.9622
	Badatighat	Dec-19	1.73	Subansiri	Assam	26.9347	93.9622
27	Bakhari (in place of seoni chapara)	Aug-19	1.54	Wainganga	Madhya Pradesh	22.3244	79.4678
28	BALADOBA	Aug-19	0.59	Ganghadhar	Assam	26.0189	89.8294
29	Balighat	Aug-19	0.37	Burhabalang	Odisha	24.8717	85.8473
	Balighat	Jun-20	0.86	Burhabalang	Odisha	24.8717	85.8473
30	Balrampur	Apr-19	0.43	Rapti	Uttar Pradesh	27.4500	82.2125
	Balrampur	Jun-20	0.75	Rapti	Uttar Pradesh	27.4500	82.2125
31	Baltara	Dec-18	1.26	Kosi	Bihar	25.5415	86.7225
	Baltara	Apr-19	0.33	Kosi	Bihar	25.5415	86.7225
	Baltara	Aug-19	1.05	Kosi	Bihar	25.5415	86.7225
32	Baluaghat	Jun-20	0.96	Ganga	Uttar Pradesh	25.4206	83.1836
	Baluaghat	Jun-20	0.87	Ganga	Uttar Pradesh	25.4206	83.1836
	Baluaghat	Jun-20	0.30	Ganga	Uttar Pradesh	25.4206	83.1836
33	Bamni	Aug-19	0.77	Wardha	Maharashtra	19.8139	79.3794
34	Bamni (Banjar)	Aug-19	1.79	Banjar	Madhya Pradesh	22.4842	80.3781
35	Bangapani(Munsiyari)	Jun-20	0.74	Gauri Ganga	Uttarakhand	29.9592	80.3042
36	Banpur	Aug-19	6.23	Mathabhanga	West Bengal	24.1084	87.7989
	Banpur	Dec-19	0.46	Mathabhanga	West Bengal	24.1084	87.7989
37	Bansi	Dec-19	0.52	Rapti	Uttar Pradesh	27.1833	82.9325
	Bansi	Jun-20	0.62	Rapti	Uttar Pradesh	27.1833	82.9325
38	Bareilly	Jun-20	0.76	Ramganga	Uttar Pradesh	28.2992	79.3667
39	Baridhi	Aug-18	0.49	Subarnarekha	Jharkhand	22.7994	86.2489
	Baridhi	Jun-20	0.77	Subarnarekha	Jharkhand	22.7994	86.2489
40	Baripada	Aug-19	0.35	Burhabalang	Odisha	21.9311	86.7186
	Baripada	Jun-20	0.79	Burhabalang	Odisha	21.9311	86.7186
41	Barmanghat	Aug-19	0.75	Narmada	Madhya Pradesh	23.0308	79.0156
42	BAROBISHA	Aug-19	0.50	Raidak-II	West Bengal	26.4744	89.7853
43	Basantpur	Aug-18	0.35	Mahanadi	Chattisgarh	21.7267	82.7881
	Basantpur	Aug-19	0.46	Mahanadi	Chattisgarh	21.7267	82.7881
	Basantpur	Jun-20	0.87	Mahanadi	Chattisgarh	21.7267	82.7881
44	Basti	Aug-18	0.39	Kwano	Uttar Pradesh	26.7839	82.7131
	Basti	Aug-19	0.73	Kwano	Uttar Pradesh	26.7839	82.7131
	Basti	Jun-20	0.83	Kwano	Uttar Pradesh	26.7839	82.7131
45	Basti D/S	Jun-20	0.94	Kwano	Uttar Pradesh	26.7653	82.7324
46	Basti U/S	Jun-20	0.77	Kwano	Uttar Pradesh	26.7974	82.7078
47	Bawapuram	Jul-20	0.44	Tungabhadra	Andhra Pradesh	15.8833	77.9572
	Bawapuram	Sep-20	0.35	Tungabhadra	Andhra Pradesh	15.8833	77.9572
48	Beki Road bridge	Aug-19	0.41	Beki	Assam	26.4941	90.9162
	Beki Road bridge	Jun-20	0.61	Beki	Assam	26.4941	90.9162
49	Belkheri	Aug-19	0.85	Sher	Madhya Pradesh	22.9278	79.3397
50	Berhampore	Aug-19	9.08	Bhagirathi	West Bengal	24.0911	88.2431
	Berhampore	Dec-19	1.66	Bhagirathi	West Bengal	24.0911	88.2431
51	Bhadrachalam	Aug-19	0.69	Godavari	Telangana	17.6681	80.8772
52	Bhalukpong	Apr-19	2.41	Kameng	Arunachal Pradesh	27.0167	92.6419
	Bhalukpong	Aug-19	8.93	Kameng	Arunachal Pradesh	27.0167	92.6419
53	Bhalwara	Aug-19	0.88	Gaur	Madhya Pradesh	23.1147	79.9961

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
54	Bhitaura	Aug-18	0.37	Ganga	Uttar Pradesh	26.0431	80.8542
	Bhitaura	Aug-19	0.37	Ganga	Uttar Pradesh	26.0431	80.8542
	Bhitaura	Jun-20	0.83	Ganga	Uttar Pradesh	26.0431	80.8542
55	Bhomoraguri	Aug-18	0.57	Brahmaputra	Assam	26.6103	92.8603
	Bhomoraguri	Dec-18	0.58	Brahmaputra	Assam	26.6103	92.8603
	Bhomoraguri	Apr-19	2.38	Brahmaputra	Assam	26.6103	92.8603
	Bhomoraguri	Aug-19	4.79	Brahmaputra	Assam	26.6103	92.8603
	Bhomoraguri	Dec-19	0.31	Brahmaputra	Assam	26.6103	92.8603
56	Bido	Jun-20	0.96	Brahmani	Odisha	20.8086	85.3473
57	Bihubar	Aug-18	3.28	Dikhow	Assam	26.8558	94.7994
	Bihubar	Dec-18	0.60	Dikhow	Assam	26.8558	94.7994
	Bihubar	Apr-19	1.03	Dikhow	Assam	26.8558	94.7994
	Bihubar	Aug-19	3.89	Dikhow	Assam	26.8558	94.7994
	Bihubar	Dec-19	1.90	Dikhow	Assam	26.8558	94.7994
58	Birdghat	Aug-19	0.41	Rapti	Uttar Pradesh	26.7444	83.3400
	Birdghat	Jun-20	0.80	Rapti	Uttar Pradesh	26.7444	83.3400
59	Bithoor	Jun-20	0.78	Ganga	Uttar Pradesh	26.6169	80.2756
60	Bokajan	Aug-18	0.84	Dhansari(South)	Assam	26.0161	93.7872
	Bokajan	Dec-18	0.61	Dhansari(South)	Assam	26.0161	93.7872
	Bokajan	Aug-19	5.33	Dhansari(South)	Assam	26.0161	93.7872
	Bokajan	Dec-19	1.25	Dhansari(South)	Assam	26.0161	93.7872
61	Bolani	Jun-20	0.95	Brahmani	Odisha	22.1300	84.8800
62	Bonaigarh	Jun-20	0.88	Rukura	Odisha	21.8200	84.9500
63	Burhanpur	Apr-19	0.49	Tapi	Madhya Pradesh	21.2994	76.2350
	Burhanpur	Aug-19	0.70	Tapi	Madhya Pradesh	21.2994	76.2350
64	Buxar	Aug-19	0.86	Ganga	Bihar	25.5769	83.9756
65	Byrnihat	Aug-18	0.56	Umtru	Meghalaya	26.0403	91.8658
	Byrnihat	May-20	0.48	Umtru	Meghalaya	26.0403	91.8658
66	C.S-97 A, Farakka	Aug-19	9.47	Ganga	West bengal	24.7908	87.9367
	C.S-97 A, Farakka	Dec-19	1.42	Ganga	West bengal	24.7908	87.9367
67	Champasari	Aug-19	0.82	Mahananda	West Bengal	26.7392	88.4228
68	Champua	Jun-20	0.73	Baitarni	Odisha	22.0658	85.6733
69	Chandrika Devi	Jun-20	0.80	Gomti	Uttar Pradesh	26.9332	80.8627
70	Chandwada	Aug-18	0.54	Orsang	Gujarat	22.0500	73.4661
	Chandwada	Aug-19	1.47	Orsang	Gujarat	22.0500	73.4661
71	Chapra	Aug-19	0.35	Jalangi	West Bengal	23.5042	88.5514
72	Chenimari	Aug-18	1.41	Buridehing	Assam	27.3114	94.8825
	Chenimari	Dec-18	0.33	Buridehing	Assam	27.3114	94.8825
	Chenimari	Apr-19	0.38	Buridehing	Assam	27.3114	94.8825
	Chenimari	Aug-19	1.70	Buridehing	Assam	27.3114	94.8825
	Chenimari	Dec-19	0.38	Buridehing	Assam	27.3114	94.8825
	CHENIMARI	Dec-20	0.47	Buridehing	Assam	27.3114	94.8825
73	CHEPAN	Aug-19	0.44	Raidak-I	West Bengal	26.4922	89.7006
74	Chhatnag Allahabad	Aug-18	0.31	Ganga	Uttar Pradesh	25.3931	81.9164
	Chhatnag Allahabad	Jun-20	0.85	Ganga	Uttar Pradesh	25.3931	81.9164
	Chhatnag Allahabad	Jun-20	1.04	Ganga	Uttar Pradesh	25.3931	81.9164
	Chhatnag Allahabad	Jun-20	1.04	Ganga	Uttar Pradesh	25.3931	81.9164
	Chhatnag Allahabad	Dec-20	0.49	Ganga	Uttar Pradesh	25.3931	81.9164
75	Chhidgaon	Aug-19	0.83	Ganjaj	Madhya Pradesh	22.4058	77.3081
76	Chindnar	Aug-19	1.55	Indravati	Chattisgarh	19.0794	81.3011
77	CHITRASANI	Dec-20	0.98	Balaram	Gujarat	24.2856	72.5003
78	Chopan	Aug-19	1.65	Sone	Uttar Pradesh	24.5333	83.0500
	Chopan	Jun-20	0.88	Sone	Uttar Pradesh	24.5333	83.0500

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Chopan	Jun-20	0.92	Sone	Uttar Pradesh	24.5333	83.0500
79	Chotabekra	Aug-19	0.32	Barak	Manipur	24.6721	93.1039
80	Chouldhowaghat	Aug-18	1.00	Subansiri	Assam	27.4475	94.2528
	Chouldhowaghat	Apr-19	0.70	Subansiri	Assam	27.4475	94.2528
	Chouldhowaghat	Aug-19	1.66	Subansiri	Assam	27.4475	94.2528
	Chouldhowaghat	Dec-19	0.41	Subansiri	Assam	27.4475	94.2528
81	D.R.F	Jun-20	0.69	Puthimari	Assam	26.7750	91.6892
82	Dabri	Aug-18	0.59	Ramganga	Uttar Pradesh	27.4958	79.6972
	Dabri	Jun-20	0.78	Ramganga	Uttar Pradesh	27.4958	79.6972
83	Dawki	May-20	0.51	Umngot	Meghalaya	25.1897	92.0228
	Dawki	Jun-20	0.66	Umngot	Meghalaya	25.1897	92.0228
84	Delhi Rly Bridge	Dec-20	0.50	Yamuna	Delhi	28.6625	77.2467
	Delhi Rly Bridge	April,May 2020	0.33	Yamuna	Delhi	28.6625	77.2467
85	Deongaon Bridge	Jul-20	0.31	Bhima	Karnataka	17.1703	76.3283
86	DEOSUGUR	Aug-19	5.37	Krishna	Karnataka	16.3822	77.3572
	DEOSUGUR	Sep-20	0.83	Krishna	Karnataka	16.3822	77.3572
87	Derol Bridge	Dec-20	2.46	Sabarmati	Gujarat	23.5764	72.8069
88	Desangpani	Aug-18	1.41	Desang	Assam	27.0472	94.9125
	Desangpani	Apr-19	0.90	Desang	Assam	27.0472	94.9125
	Desangpani	Aug-19	2.84	Desang	Assam	27.0472	94.9125
	Desangpani	Dec-19	1.66	Desang	Assam	27.0472	94.9125
89	DHALEGAON	Aug-19	0.69	Godavari	Maharashtra	19.2203	76.3633
90	Dhaneta	Aug-19	0.78	Bahgul	Uttar Pradesh	28.4231	79.8108
	Dhaneta	Jun-20	0.81	Bahgul	Uttar Pradesh	28.4231	79.8108
91	Dharamtul	Aug-18	0.55	Kopili	Assam	26.1661	92.3556
	Dharamtul	Dec-18	0.47	Kopili	Assam	26.1661	92.3556
	Dharamtul	Apr-19	1.79	Kopili	Assam	26.1661	92.3556
	Dharamtul	Aug-19	3.22	Kopili	Assam	26.1661	92.3556
	Dharamtul	Dec-19	0.33	Kopili	Assam	26.1661	92.3556
92	Dheng Bridge	Dec-18	0.34	Bagmati	Bihar	26.7234	85.3260
93	Dholabazar	Aug-18	0.88	Lohit	Assam	27.7900	95.6006
	Dholabazar	Aug-19	2.98	Lohit	Assam	27.7900	95.6006
	Dholabazar	Dec-19	1.16	Lohit	Assam	27.7900	95.6006
94	Dholai	May-20	0.47	Rukni	Assam	24.5861	92.8422
	Dholai	Jun-20	0.63	Rukni	Assam	24.5861	92.8422
95	Dhubri	Aug-19	0.33	Brahmaputra	Assam	26.0167	89.9903
96	DIANA	Aug-19	0.48	Diana	West Bengal	26.8614	89.0011
97	Dibrugarh	Aug-18	1.00	Brahmaputra	Assam	27.4989	94.8558
	Dibrugarh	Dec-18	0.34	Brahmaputra	Assam	27.4989	94.8558
	Dibrugarh	Apr-19	0.37	Brahmaputra	Assam	27.4989	94.8558
	Dibrugarh	Aug-19	3.27	Brahmaputra	Assam	27.4989	94.8558
	Dibrugarh	Dec-19	0.32	Brahmaputra	Assam	27.4989	94.8558
	Dibrugarh	Dec-20	1.10	Brahmaputra	Assam	27.4989	94.8558
98	Dillighat	Aug-18	1.66	Desang	Assam	27.1400	95.3700
	Dillighat	Apr-19	0.82	Desang	Assam	27.1400	95.3700
	Dillighat	Aug-19	8.96	Desang	Assam	27.1400	95.3700
99	Dimapara	Aug-18	0.31	Bugi	Meghalaya	25.2308	90.2500
	Dimapara	Jun-20	0.66	Bugi	Meghalaya	25.2308	90.2500
100	Dindori	Aug-19	2.29	Narmada	Madhya Pradesh	22.9478	81.0761
101	Domuhani	Jun-20	0.83	Subarnarekha	Jharkhand	22.8356	86.1611
102	Duddhi	Aug-18	1.21	Kanhar	Uttar Pradesh	24.2272	83.2706
	Duddhi	Aug-19	1.99	Kanhar	Uttar Pradesh	24.2272	83.2706
	Duddhi	Jun-20	0.93	Kanhar	Uttar Pradesh	24.2272	83.2706
	Duddhi	Jun-20	0.96	Kanhar	Uttar Pradesh	24.2272	83.2706
	Duddhi	Dec-20	0.72	Kanhar	Uttar Pradesh	24.2272	83.2706

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
103	Dudhnoi	Apr-19	0.38	Dhudnoi	Assam	25.9806	90.7906
	Dudhnoi	Aug-19	0.30	Dhudnoi	Assam	25.9806	90.7906
104	Durvash	Aug-18	0.67	Wagh	Maharashtra	19.7131	72.9300
	Durvash	Aug-19	0.92	Wagh	Maharashtra	19.7131	72.9300
105	Ekmighat	Dec-18	1.93	Adhwara	Bihar	26.1194	85.8764
	Ekmighat	Aug-19	2.53	Adhwara	Bihar	26.1194	85.8764
106	Elginbridge	Apr-19	0.53	Ghaghra	Uttar Pradesh	27.0956	81.4839
	Elginbridge	Dec-19	0.42	Ghaghra	Uttar Pradesh	27.0956	81.4839
	Elginbridge	Jun-20	0.66	Ghaghra	Uttar Pradesh	27.0956	81.4839
107	Elunuthimangalam	Aug-19	0.47	Noyyal	Tamil Nadu	11.0317	77.8875
108	Englishbazar	Aug-19	1.53	Mahananda	West Bengal	25.0113	88.1519
	Englishbazar	Dec-19	1.31	Mahananda	West Bengal	25.0113	88.1519
109	Erinjipuzha	Dec-19	1.67	Payaswani	Kerala	12.4792	75.1472
	Erinjipuzha	Dec-19	0.44	Payaswani	Kerala	12.4792	75.1472
110	Etawah	May-20	0.39	Yamuna	Uttar Pradesh	26.7500	78.9833
111	Faizabad U/S	Jun-20	0.83	Ghaghra	Uttar Pradesh	26.7786	82.0817
112	Fakirabazar	Aug-18	0.78	Longai	Assam	24.8517	92.3500
	Fakirabazar	Jun-20	0.77	Longai	Assam	24.8517	92.3500
	Fakirabazar	Jun-20	1.76	Longai	Assam	24.8517	92.3500
	Fakirabazar	Dec-20	0.34	Longai	Assam	24.8517	92.3500
113	Farakka/(HR)	Aug-19	11.24	Feeder Canal	West bengal	24.7953	87.9317
	Farakka/(HR)	Dec-19	1.86	Feeder Canal	West bengal	24.7953	87.9317
114	Fatehgarh	Aug-18	0.32	Ganga	Uttar Pradesh	27.4042	79.6250
	Fatehgarh	Aug-19	0.32	Ganga	Uttar Pradesh	27.4042	79.6250
	Fatehgarh	Jun-20	0.79	Ganga	Uttar Pradesh	27.4042	79.6250
115	Fulertal	May-20	0.33	Barak	Assam	24.7886	93.0189
	Fulertal	Jun-20	0.65	Barak	Assam	24.7886	93.0189
116	Gadarwara	Aug-19	1.16	Sakkar	Madhya Pradesh	22.9228	78.7908
117	Gadat	Aug-18	1.10	Ambika	Gujarat	20.8581	72.9850
	Gadat	Aug-19	0.92	Ambika	Gujarat	20.8581	72.9850
118	Galeta	Dec-18	0.53	Hindon	Uttar Pradesh	29.0756	77.4625
119	Gandhighat	Aug-19	1.07	Ganga	Bihar	25.6217	85.1711
120	GANDLAPET	Jul-20	0.56	Peddavagu	Telangana	18.8289	78.4367
121	GANGUWALA	Dec-20	0.59	Yamuna/Bata	Himachal Pradesh	30.4369	77.5786
122	Ganod	Aug-18	0.70	Bhadar	Gujarat	21.6647	70.1811
	Ganod	Dec-18	1.06	Bhadar	Gujarat	21.6647	70.1811
	Ganod	Apr-19	2.05	Bhadar	Gujarat	21.6647	70.1811
	Ganod	Aug-19	9.46	Bhadar	Gujarat	21.6647	70.1811
123	Garhmukteshwar	Apr-19	0.34	Ganga	Uttar Pradesh	28.7667	78.1417
	Garhmukteshwar	Aug-19	0.34	Ganga	Uttar Pradesh	28.7667	78.1417
	Garhmukteshwar	Jun-20	0.68	Ganga	Uttar Pradesh	28.7667	78.1417
124	Garudeshwar	Apr-19	0.50	Narmada	Gujarat	21.8850	73.6544
	Garudeshwar	Aug-19	0.45	Narmada	Gujarat	21.8850	73.6544
125	Gaya	Aug-19	0.47	Phalgu	Bihar	24.7717	85.0100
126	GAZOLDOBA	Aug-19	0.67	Teesta	West Bengal	26.7525	88.5872
127	Gelbil	Aug-18	0.56	Doyang	Assam	26.2411	93.9836
	Gelbil	Dec-18	0.41	Doyang	Assam	26.2411	93.9836
	Gelbil	Aug-19	2.28	Doyang	Assam	26.2411	93.9836
	Gelbil	Dec-19	1.36	Doyang	Assam	26.2411	93.9836
128	Ghat	Aug-19	0.40	Sarju	Uttarakhand	29.5000	80.1278
	Ghat	Jun-20	0.78	Sarju	Uttarakhand	29.5000	80.1278
129	Ghatsila	Jun-20	0.95	Subarnarekha	Jharkhand	22.5806	86.4683
130	Ghatsila Road Bridge	Jun-20	0.85	Subarnarekha	Jharkhand	22.5945	86.4478
131	Ghazipur	Jun-20	0.83	Ganga	Uttar Pradesh	25.5697	83.5783
	Ghazipur	Jun-20	0.93	Ganga	Uttar Pradesh	25.5697	83.5783

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Ghazipur	Dec-20	0.50	Ganga	Uttar Pradesh	25.5697	83.5783
132	GHISH	Aug-19	0.67	Ghish	West Bengal	26.8747	88.6094
133	GHUGUMARI	Aug-19	1.06	Torsa	West Bengal	26.2878	89.4608
134	Goalpara	Aug-19	0.51	Brahmaputra	Assam	26.2042	90.5814
	Goalpara	Dec-19	0.49	Brahmaputra	Assam	26.2042	90.5814
135	Golaghat	Aug-18	2.07	Dhansiri(South )	Assam	26.5033	93.9519
	Golaghat	Dec-18	0.52	Dhansiri(South )	Assam	26.5033	93.9519
	Golaghat	Apr-19	0.51	Dhansiri(South )	Assam	26.5033	93.9519
	Golaghat	Aug-19	9.89	Dhansiri(South )	Assam	26.5033	93.9519
	Golaghat	Dec-19	1.36	Dhansiri(South )	Assam	26.5033	93.9519
136	Gomlai	Aug-18	0.34	Brahmani	Odisha	21.8378	84.9425
	Gomlai	Jun-20	0.79	Brahmani	Odisha	21.8378	84.9425
137	Gomti Nagar	Jun-20	0.86	Gomti	Uttar Pradesh	26.8172	80.0140
138	Gopalkheda	Aug-18	0.38	Purna	Maharashtra	20.8742	76.9897
	Gopalkheda	Aug-19	0.88	Purna	Maharashtra	20.8742	76.9897
139	Gopiballabhpur	Jun-20	0.82	Subarnarekha	West Bengal	22.2197	86.9047
140	Gorakhpur D/S	Jun-20	0.81	Rapti	Uttar Pradesh	26.7055	83.3497
141	Gorakhpur U/S	Jun-20	0.73	Rapti	Uttar Pradesh	26.7525	83.3242
142	Govindapur	Jun-20	0.88	Burhabalang	Odisha	21.5478	86.9181
143	Gudari	Aug-19	0.40	Vamsadhara	Odisha	19.3833	83.7922
	Gudari	Jun-20	0.87	Vamsadhara	Odisha	19.3833	83.7922
144	Guma Phoolbari (Tarabari)	Dec-20	0.60	Brahmaputra	Assam	26.2572	91.1164
145	Gummanur	Aug-19	2.32	Ponnaiyar	Tamil Nadu	12.5550	78.1386
146	Gumrabazar	Dec-18	0.34	Surma	Assam	25.0119	92.5100
	Gumrabazar	May-20	0.44	Surma	Assam	25.0119	92.5100
	Gumrabazar	Jun-20	0.65	Surma	Assam	25.0119	92.5100
	GUMRABAZAR	Dec-20	1.52	Surma	Assam	25.0119	92.5100
147	Gunupur	Jun-20	1.76	Vamsadhara	Odisha	19.0833	83.8056
148	Guwahati D.C. Court	Aug-19	0.63	Brahmaputra	Assam	26.1947	91.7431
	Guwahati D.C. Court	Jun-20	0.65	Brahmaputra	Assam	26.1947	91.7431
	Guwahati D.C. Court	Jun-20	1.20	Brahmaputra	Assam	26.1947	91.7431
149	Haladi	Apr-19	0.30	Halady	Karnataka	13.5817	74.8578
150	Halia	Aug-19	0.32	Halia	Telangana	16.7900	79.3388
151	Handia	Aug-19	1.07	Narmada	Madhya Pradesh	22.4917	76.9936
152	Hanskhali	Aug-19	0.62	Churni	West Bengal	23.3578	88.6086
	Hanskhali	Dec-19	0.62	Churni	West Bengal	23.3578	88.6086
153	HASIMARA	Aug-19	0.33	Torsa	West Bengal	26.7292	89.3236
154	Hathi Khana	Jun-20	0.87	Ganga	Uttar Pradesh	27.3479	79.6436
155	Hathidah	Dec-18	1.68	Ganga	Bihar	25.3686	85.9886
	Hathidah	Aug-19	2.98	Ganga	Bihar	25.3686	85.9886
156	Hayaghat	Dec-18	1.15	Bagmati	Bihar	26.0375	85.8864
	Hayaghat	Aug-19	1.21	Bagmati	Bihar	26.0375	85.8864
157	Hivra	Aug-18	0.74	Wardha	Maharashtra	20.5472	78.3247
	Hivra	Aug-19	0.58	Wardha	Maharashtra	20.5472	78.3247
158	Hoshangabad	Aug-19	0.95	Narmada	Madhya Pradesh	22.7561	77.7328
	Hoshangabad	May-20	0.34	Narmada	Madhya Pradesh	22.7561	77.7328
159	Indupur	Jun-20	1.06	Brahmani	Odisha	20.6397	86.4039
160	Jagdapur	Aug-18	0.46	Indravati	Chattisgarh	19.1081	82.0228
	Jagdapur	Aug-19	1.59	Indravati	Chattisgarh	19.1081	82.0228
161	Jagibhakatgaon	Dec-18	0.55	Kopili	Assam	26.1608	92.2169
	Jagibhakatgaon	Apr-19	1.93	Kopili	Assam	26.1608	92.2169

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Jagibhakatgaon	Aug-19	4.97	Kopili	Assam	26.1608	92.2169
	Jagibhakatgaon	Dec-19	0.63	Kopili	Assam	26.1608	92.2169
162	Jajmau	Jun-20	0.83	Ganga	Uttar Pradesh	26.4094	80.4438
163	Jaldhaka NH-31	Aug-19	0.64	Jaldhaka	West Bengal	26.5697	88.9383
164	Jamshedpur	Jun-20	0.78	Subarnarekha	Jharkhand	22.8156	86.2161
165	Jamsholaghat	Jun-20	0.98	Subarnarekha	Odisha	22.2197	86.7167
166	Japla	Aug-19	0.80	Sone	Jharkhand	24.5669	83.9758
167	Jaraikelela	Jun-20	0.94	Koel	Odisha	22.3217	85.1047
168	Jaunpur	Aug-19	0.44	Gomti	Uttar Pradesh	25.7500	82.6644
	Jaunpur	Jun-20	0.97	Gomti	Uttar Pradesh	25.7500	82.6644
	Jaunpur	Jun-20	0.86	Gomti	Uttar Pradesh	25.7500	82.6644
169	Jenapur	Apr-19	0.63	Kagna	Odisha	20.8897	86.0142
	Jenapur	Aug-19	0.33	Kagna	Odisha	20.8897	86.0142
	Jenapur	Jun-20	0.82	Kagna	Odisha	20.8897	86.0142
170	Jhanjharpur	Dec-18	0.48	Kamla-Balan	Bihar	26.2266	86.2561
	Jhanjharpur	Aug-19	0.68	Kamla-Balan	Bihar	26.2266	86.2561
171	Jiabharali NT Road X-ing	Aug-18	0.71	Jiabharali	Assam	26.8097	92.8764
	Jiabharali NT Road X-ing	Apr-19	1.07	Jiabharali	Assam	26.8097	92.8764
	Jiabharali NT Road X-ing	Aug-19	5.93	Jiabharali	Assam	26.8097	92.8764
172	Kabirganj	Dec-19	5.55	Sarda	Uttar Pradesh	28.5000	80.3792
	Kabirganj	Jun-20	0.74	Sarda	Uttar Pradesh	28.5000	80.3792
173	Kachlabridge	Jun-20	0.77	Ganga	Uttar Pradesh	27.9319	78.8606
174	Kailash Mandir Benpur U/S of Agra	Dec-18	0.95	Yamuna	Uttar Pradesh	27.2361	77.9306
175	Kakarghatti	Aug-19	0.65	KamlaBalan	Bihar	26.1886	85.9508
176	Kalampur	Aug-18	0.57	Kaliyar	Kerala	9.9906	76.6322
	Kalampur	Dec-19	0.65	Kaliyar	Kerala	9.9906	76.6322
	Kalampur	Dec-19	0.70	Kaliyar	Kerala	9.9906	76.6322
	Kalampur	Dec-20	0.33	Manimala	Kerala	9.9906	76.6322
177	Kallooppara	Dec-19	0.57	Manimala	Kerala	9.4036	76.6503
178	Kalna (EBB)*	Aug-19	10.57	Bhagirathi	West Bengal	23.2253	88.3725
179	Kalna (Flow)*	Aug-19	5.34	Bhagirathi	West Bengal	23.2253	88.3725
	Kalna (Flow)*	Dec-19	1.91	Bhagirathi	West Bengal	23.2253	88.3725
180	Kalpadai	Dec-19	0.73	Gomukhi Nadi(N)	Tamil Nadu	11.7889	78.7866
181	KALPI	Dec-20	1.16	Yamuna	Uttar Pradesh	26.2000	79.7000
182	Kamalanga	Jun-20	0.78	Brahmani	Odisha	20.8872	85.2787
183	Kampur	Aug-18	0.57	Kopili	Assam	26.1531	92.6564
	Kampur	Aug-19	9.34	Kopili	Assam	26.1531	92.6564
	Kampur	Dec-19	0.33	Kopili	Assam	26.1531	92.6564
184	Kannauj	Jun-20	0.84	Kali	Uttar Pradesh	27.0127	79.9841
185	Kanpur	Aug-18	0.82	Ganga	Uttar Pradesh	26.4694	80.3764
	Kanpur	Aug-19	0.33	Ganga	Uttar Pradesh	26.4694	80.3764
	Kanpur	Jun-20	0.74	Ganga	Uttar Pradesh	26.4694	80.3764
186	Kantamal	Aug-18	0.69	Tel	Odisha	20.6500	83.7222
187	Kanti	Aug-19	0.34	BurhiGandak	Bihar	26.2735	85.3004
188	Karathodu	Dec-19	0.34	Kadalundi	Kerala	11.0569	76.0394
	Karathodu	Dec-19	0.97	Kadalundi	Kerala	11.0569	76.0394
189	Karimganj	Aug-19	0.88	Kushiyara	Assam	24.8761	92.3619
190	Kasganj	Jun-20	0.90	Kali	Uttar Pradesh	27.7879	78.6253
191	Kashinagar	Aug-18	0.30	Vamsadhara	Odisha	18.8483	83.8731
	Kashinagar	Jun-20	0.98	Vamsadhara	Odisha	18.8483	83.8731
192	Katri Umraoli	Jun-20	0.80	Ganga	Uttar Pradesh	27.1506	79.8839
193	Katwa	Aug-19	7.90	Bhagirathi	West Bengal	23.6436	88.1478
	Katwa	Dec-19	4.14	Bhagirathi	West Bengal	23.6436	88.1478
194	Kazipura	Jun-20	0.83	Gomti	Uttar Pradesh	28.9871	78.7417



S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
195	KEESARA	Aug-19	1.86	Munneru	Andhra Pradesh	16.7156	80.3164
196	Kellodu	Aug-19	0.34	Vedavathi	Karnataka	13.7542	76.3197
197	Keolari	Aug-19	4.33	Wainganga	Madhya Pradesh	22.3819	79.9000
198	Keonjhar	Jun-20	1.19	Aradi	Odisha	21.6278	85.6314
199	Kesinga	Aug-18	0.67	Tel	Odisha	20.2039	83.2231
200	KHANITAR	Aug-19	2.26	Teesta	Sikkim	27.1778	88.5133
201	KHANPUR	Dec-20	1.17	Mahi	Gujarat	22.5347	73.1408
202	Kharkhana	Dec-18	1.20	Myntdu	Meghalaya	25.158333	92.214444
	Kharkhana	Jun-20	0.59	Myntdu	Meghalaya	25.158333	92.214444
203	Kheronighat	Apr-19	0.99	Kopili	Assam	25.8483	92.8867
	Kheronighat	Aug-19	7.35	Kopili	Assam	25.8483	92.8867
204	Kidangoor	Dec-19	0.40	Meenachil	Kerala	9.6756	76.6056
205	Kodumudi	Apr-19	0.32	Cauvery	Tamil Nadu	11.0811	77.8903
206	Koelwar	Dec-18	0.58	Sone	Bihar	25.5714	84.7947
	Koelwar	Aug-19	1.99	Sone	Bihar	25.5714	84.7947
207	Kogaon	Aug-19	0.65	Kundi	Madhya Pradesh	22.1014	75.6842
208	Kokiwada	Dec-20	1.28	Pench	Madhya Pradesh	21.8977	79.2344
209	Kokrajhar	Jun-20	0.62	Gaurang	Assam	26.3964	90.2544
210	Konta	Aug-19	1.29	Sabari	Chattisgarh	17.7989	81.3928
211	KOPERGAON	Aug-19	4.54	Godavari	Maharashtra	19.8783	74.4819
212	Kudalaiyathur	Dec-19	0.63	Vellar	Tamil Nadu	11.4222	79.4722
213	Kuldah Bridge	Aug-19	0.31	Sone	Madhya Pradesh	24.4128	81.7039
	Kuldah Bridge	Jun-20	0.90	Sone	Madhya Pradesh	24.4128	81.7039
	Kuldah Bridge	Jun-20	0.85	Sone	Madhya Pradesh	24.4128	81.7039
214	Kulpatanga	Aug-19	0.69	Kharkai	Jharkhand	22.7658	86.1591
	Kulpatanga	Jun-20	0.98	Kharkai	Jharkhand	22.7658	86.1591
215	Kulsi	Apr-19	0.35	Kulsi	Assam	25.9792	91.3858
	Kulsi	Aug-19	0.50	Kulsi	Assam	25.9792	91.3858
	Kulsi	Jun-20	0.72	Kulsi	Assam	25.9792	91.3858
216	Kumbidi	Dec-19	1.12	Bharathapu- zha	Kerala	10.8500	76.0200
	Kumbidi	Dec-19	0.49	Bharathapu- zha	Kerala	10.8500	76.0200
217	Kumhari	Aug-19	1.47	Wainganga	Madhya Pradesh	21.8842	80.1750
218	Kuniyil	Dec-19	1.01	Chaliyar	Kerala	11.2394	76.0233
	Kuniyil	Dec-19	1.59	Chaliyar	Kerala	11.2394	76.0233
219	Kurubhata	Aug-18	0.70	Mand	Chattisgarh	21.9864	83.2042
220	Kusei	Jun-20	0.87	Kusei	Odisha	21.1600	86.1243
221	Kuzhithurai	Dec-19	0.69	Thambraparni	Tamil Nadu	8.3053	77.1856
	Kuzhithurai	Dec-19	0.79	Thambraparni	Tamil Nadu	8.3053	77.1856
	KUZHITHURAI	Dec-20	0.60	Thambraparni	Tamil Nadu	8.3053	77.1856
222	Labha	Aug-19	3.43	Mahanan- da(Fulahar)	Bihar	24.8833	87.7000
	Labha	Dec-19	1.07	Mahanan- da(Fulahar)	Bihar	24.8833	87.7000
223	Lakhisarai	Dec-20	0.43	Kiul	Bihar	25.1847	86.1022
224	Lakkavalli	Aug-19	0.35	Bhadra	Karnataka	13.7061	75.6450
225	Lalganj	Dec-18	0.58	Gandak	Bihar	25.8453	85.1544
	Lalganj	Aug-19	2.01	Gandak	Bihar	25.8453	85.1544
226	Lalpur	Dec-20	0.41	Sengar	Uttar Pradesh	26.2714	79.9500
227	Lodhikheda	Aug-19	0.65	Jam	Madhya Pradesh	21.5792	78.8655
	Lodhikheda	Dec-20	4.88	Jam	Madhya Pradesh	21.5792	78.8655
228	Lowara	Aug-18	0.45	Shetruni	Gujarat	21.4439	71.5603
	Lowara	Dec-18	0.35	Shetruni	Gujarat	21.4439	71.5603
	Lowara	Aug-19	2.24	Shetruni	Gujarat	21.4439	71.5603
	Lowara	Dec-20	1.46	Shetruni	Gujarat	21.4439	71.5603
229	Lucknow	Dec-18	1.04	Gomti	Uttar Pradesh	26.8611	80.9464

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Lucknow	Aug-19	0.52	Gomti	Uttar Pradesh	26.8611	80.9464
	Lucknow	Jun-20	0.81	Gomti	Uttar Pradesh	26.8611	80.9464
230	Lupungdih	Jun-20	0.86	Subarnarekha	Odisha	22.3497	87.4967
231	Madamon	Dec-19	1.10	Pamba	Kerala	9.3639	76.8378
	Madamon	Dec-20	0.66	Pamba	Kerala	9.3639	76.8378
232	Madhabarida	Jun-20	0.94	Badanadi	Odisha	19.8531	84.6264
233	Madhira	Aug-19	1.34	Wyra	Telangana	16.9181	80.3558
234	Maghadharra	Aug-19	4.37	Wainganga	Madhya Pradesh	22.2394	80.0939
235	Mahalgaon	Aug-19	1.45	Wainganga	Madhya Pradesh	21.5505	80.0266
236	Mahendipur	Jun-20	0.94	Ganga	Uttar Pradesh	27.0101	79.9855
237	Mahuwa	Aug-18	0.87	Purna	Gujarat	21.0158	73.1356
	Mahuwa	Apr-19	0.35	Purna	Gujarat	21.0158	73.1356
	Mahuwa	Aug-19	1.37	Purna	Gujarat	21.0158	73.1356
238	Maighat	Aug-18	0.55	Gomti	Uttar Pradesh	25.6436	82.8467
	Maighat	Aug-19	0.31	Gomti	Uttar Pradesh	25.6436	82.8467
	Maighat	Jun-20	0.93	Gomti	Uttar Pradesh	25.6436	82.8467
	Maighat	Jun-20	0.94	Gomti	Uttar Pradesh	25.6436	82.8467
239	Majhitar	Aug-19	0.66	Rangit	Sikkim	27.1078	88.3217
240	Malakkara	Dec-19	0.68	Pampa	Kerala	9.3325	76.6631
	Malakkara	Dec-19	0.88	Pampa	Kerala	9.3325	76.6631
	MALAKKARA	Dec-20	0.61	Periyar	Kerala	9.3325	76.6631
241	MALIBARI	Dec-20	1.35	Jalijoli	Assam	26.0760	91.1045
242	Manakkad	Dec-19	0.40	Thodupuzha	Kerala	9.9088	76.6961
243	Manas	Jun-20	0.56	Manas	Assam	26.4645	90.7494
244	MANDAWARA	Dec-20	1.01	Chambal	Rajasthan	25.3853	76.1519
245	Manendragarh	Aug-18	0.67	Hasdeo	Chhattisgarh	23.2036	82.2172
246	Manghi	Dec-19	0.34	Ghaghra	Bihar	25.8258	84.5831
247	Mankara	Dec-18	0.56	Bharathapuzha	Kerala	10.7611	76.4861
	Mankara	Dec-19	0.70	Bharathapuzha	Kerala	10.7611	76.4861
	Mankara	Dec-19	0.69	Bharathapuzha	Kerala	10.7611	76.4861
	MANKARA	Dec-20	0.63	Bharathapuzha	Kerala	10.7611	76.4861
248	Manot	Aug-19	2.09	Narmada	Madhya Pradesh	22.7358	80.5131
249	Mantralayam	Aug-19	1.42	Tungabhadra	Andhra Pradesh	15.9483	77.4264
250	Manughat	Aug-19	0.49	Manu	Tripura	23.9906	91.9934
251	Margherita	Aug-18	1.41	Buridehing	Assam	27.2844	95.6628
	Margherita	Apr-19	0.57	Buridehing	Assam	27.2844	95.6628
	Margherita	Aug-19	4.54	Buridehing	Assam	27.2844	95.6628
	Margherita	Dec-19	0.33	Buridehing	Assam	27.2844	95.6628
252	Marol	Aug-19	0.65	Varada	Karnataka	14.9389	75.6181
253	Mataji	Apr-19	0.59	Mahi	Madhya Pradesh	23.3497	74.7178
	Mataji	Aug-19	2.05	Mahi	Madhya Pradesh	23.3497	74.7178
	MATAJI	Dec-20	0.43	Mahi	Madhya Pradesh	23.3497	74.7178
254	MATHABHANGA	Aug-19	0.95	Jaldhaka	West Bengal	26.3253	89.2356
255	Mathanguri	Aug-19	0.61	Beki	Assam	26.7819	90.9572
	Mathanguri	Jun-20	0.62	Beki	Assam	26.7819	90.9572
256	Mathura	Dec-20	0.55	Yamuna	Uttar Pradesh	27.4417	77.7150
257	Matigara	Aug-19	0.66	Balason	West Bengal	26.7203	88.3769
	Matigara	Dec-19	0.31	Balason	West Bengal	26.7203	88.3769
258	Matijuri	Dec-18	0.99	Dhaleshwari	Assam	24.6481	92.6114
	Matijuri	May-20	0.45	Dhaleshwari	Assam	24.6481	92.6114
	Matijuri	Jun-20	0.63	Dhaleshwari	Assam	24.6481	92.6114
259	Matunga	Aug-19	0.51	Kalanadi	Assam	26.7917	91.5356
	Matunga	Jun-20	0.58	Kalanadi	Assam	26.7917	91.5356

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
260	Mayambadi	Dec-19	0.74	Gomukhi Nadi(S)	Tamil Nadu	11.7376	78.79080
261	Meja Road	Aug-18	0.68	Tons	Uttar Pradesh	25.2333	82.0378
	Meja Road	Jun-20	0.84	Tons	Uttar Pradesh	25.2333	82.0378
	Meja Road	Jun-20	0.86	Tons	Uttar Pradesh	25.2333	82.0378
	Meja Road	Dec-20	0.30	Tons	Uttar Pradesh	25.2333	82.0378
262	Mekhliganj Right Bank	Aug-19	1.11	Teesta	West Bengal	26.3325	88.8636
263	Melliaputti	Aug-19	0.39	Vamsadhara	Andhra Pradesh	18.7833	84.1833
	Melliaputti	Jun-20	1.09	Vamsadhara	Andhra Pradesh	18.7833	84.1833
264	Miao	Aug-19	8.97	Noa-dehing	Arunachal Pradesh	27.4972	96.2187
	Miao	Dec-19	1.40	Noa-dehing	Arunachal Pradesh	27.4972	96.2187
265	Mirzapur	Jun-20	0.97	Ganga	Uttar Pradesh	25.1561	82.5303
	Mirzapur	Jun-20	1.04	Ganga	Uttar Pradesh	25.1561	82.5303
	Mirzapur	Jun-20	1.02	Ganga	Uttar Pradesh	25.1561	82.5303
266	Mohgaoan	Aug-19	2.26	Burhner	Madhya Pradesh	22.7658	80.6233
	Mohgaoan	May-20	0.32	Burhner	Madhya Pradesh	22.7658	80.6233
267	Moradabad	Aug-18	0.86	Ramganga	Uttar Pradesh	28.8267	78.7981
	Moradabad	Jun-20	0.78	Ramganga	Uttar Pradesh	28.8267	78.7981
268	Motinaroli	Aug-18	0.55	Kim	Gujarat	21.4044	72.9625
	Motinaroli	Aug-19	0.93	Kim	Gujarat	21.4044	72.9625
269	Mungoli	Aug-19	1.10	Penganga	Maharashtra	19.8650	79.1261
	Mungoli	Dec-20	3.33	Penganga	Maharashtra	19.8650	79.1261
270	MUNUGODU	Aug-19	0.70	Edduvagu	Andhra Pradesh	16.5547	80.2064
271	Muri	Jun-20	0.80	Subarnarekha	Jharkhand	22.8167	86.2131
272	MURTI	Aug-19	0.68	Murti	West Bengal	26.8406	88.8283
273	Mushal	Jun-20	0.92	Baitarani	Odisha	21.3258	86.0401
274	Muthankera	Dec-19	0.98	Kabini	Kerala	11.8083	76.0839
275	NAGRAKATA	Aug-19	0.32	Jaldhaka	West Bengal	26.8728	88.8953
276	Naharkatia	Aug-18	0.59	Buridehing	Assam	27.3003	95.3306
	Naharkatia	Apr-19	0.49	Buridehing	Assam	27.3003	95.3306
	Naharkatia	Aug-19	4.35	Buridehing	Assam	27.3003	95.3306
	Naharkatia	Dec-19	2.73	Buridehing	Assam	27.3003	95.3306
277	Naidupet	Dec-19	0.49	Swarnamukhi	Andhra Pradesh	13.9472	79.8972
278	Nallamaranpatty	Aug-19	0.89	Cauvery	Tamil Nadu	10.8808	77.9847
279	Namsai	Aug-18	0.57	Noa-dehing	Arunachal Pradesh	27.6661	95.8303
	Namsai	Apr-19	0.42	Noa-dehing	Arunachal Pradesh	27.6661	95.8303
	Namsai	Aug-19	5.93	Noa-dehing	Arunachal Pradesh	27.6661	95.8303
	Namsai	Dec-19	0.56	Noa-dehing	Arunachal Pradesh	27.6661	95.8303
280	Nanded	Jul-20	0.38	Godavari	Maharashtra	19.1417	77.3203
281	Nandgaon	Aug-19	0.62	Wunna	Maharashtra	20.5255	78.8088
282	Nandira	Jun-20	0.80	Brahmani	Odisha	20.8879	85.2622
283	Nanglamoraghat	Aug-18	2.05	Disang	Assam	26.9850	94.7769
	Nanglamoraghat	Dec-18	0.96	Disang	Assam	26.9850	94.7769
	Nanglamoraghat	Apr-19	0.91	Disang	Assam	26.9850	94.7769
	Nanglamoraghat	Aug-19	5.78	Disang	Assam	26.9850	94.7769
	Nanglamoraghat	Dec-19	2.64	Disang	Assam	26.9850	94.7769
	Nanglamoraghat	Dec-20	1.49	Disang	Assam	26.9850	94.7769
284	NASIK	Aug-19	6.77	Godavari	Maharashtra	20.0019	73.8033
	Nasik	Jul-20	0.33	Godavari	Maharashtra	20.0019	73.8033
285	NAUGAON	Dec-20	0.58	Yamuna	Uttarakhand	30.7917	78.1353
286	Neamatighat	Aug-18	2.25	Brahmaputra	Assam	26.8700	94.2522

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Neamatighat	Dec-18	2.16	Brahmaputra	Assam	26.8700	94.2522
	Neamatighat	Apr-19	1.39	Brahmaputra	Assam	26.8700	94.2522
	Neamatighat	Aug-19	2.73	Brahmaputra	Assam	26.8700	94.2522
	Neamatighat	Dec-19	1.74	Brahmaputra	Assam	26.8700	94.2522
287	Neeleswaram	Dec-19	0.34	Periyar	Kerala	10.1833	76.5000
288	Neemsar	Aug-18	0.46	Gomti	Uttar Pradesh	27.3461	80.4778
	Neemsar	Jun-20	0.79	Gomti	Uttar Pradesh	27.3461	80.4778
289	Nellipally	Dec-19	0.91	Kallada	Kerala	9.0279	76.9250
	Nellipally	Dec-19	0.48	Kallada	Kerala	9.0279	76.9250
	Nellipally	Dec-20	0.40	Pamba	Kerala	9.0279	76.9250
290	Nirmali	Aug-19	0.53	Kosi	Bihar	26.3036	86.5783
291	NONA	Dec-20	1.65	Nona	Assam	26.4439	91.5600
292	NOUKAGHAT	Aug-19	0.34	Mahananda	West Bengal	26.6900	88.4069
293	Nowrangpur	Aug-18	0.57	Indravati	Odisha	19.1975	82.5119
	Nowrangpur	Aug-19	2.68	Indravati	Odisha	19.1975	82.5119
294	Numaligarh	Aug-18	0.97	Dhansiri(South )	Assam	26.6311	93.7303
	Numaligarh	Dec-18	0.42	Dhansiri(South )	Assam	26.6311	93.7303
	Numaligarh	Apr-19	1.58	Dhansiri(South )	Assam	26.6311	93.7303
	Numaligarh	Aug-19	8.46	Dhansiri(South )	Assam	26.6311	93.7303
	Numaligarh	Dec-19	1.47	Dhansiri(South )	Assam	26.6311	93.7303
295	P.G.Bridge	Aug-19	1.78	Penganga	Maharashtra	19.8175	78.5778
296	PACHEGAON	Aug-19	1.92	Pravara	Maharashtra	19.5344	74.8339
297	Paderdibadi	Aug-19	0.33	Mahi	Rajasthan	23.7594	74.1333
	Paderdibadi	Dec-20	0.77	Mahi	Rajasthan	23.7594	74.1333
298	Pagladiya	Jun-20	0.70	Pagladiya	Assam	26.4508	91.4603
299	Palakkadavu	Dec-19	0.38	Karuvannur	Kerala	10.4251	76.2378
	Palakkadavu	Dec-19	0.74	Karuvannur	Kerala	10.4251	76.2378
300	Paleru Bridge	Aug-19	0.37	Paleru	Andhra Pradesh	16.9489	80.0478
301	Paliakalan	Dec-19	0.47	Sharda	Uttar Pradesh	28.3833	80.5500
	Paliakalan	Jun-20	0.81	Sharda	Uttar Pradesh	28.3833	80.5500
302	Panbari	Jun-20	0.54	Manas	Assam	26.5917	90.8290
303	Pancharatna	Aug-19	0.41	Brahmaputra	Assam	26.2094	90.5533
304	Pandu	Dec-18	0.63	Brahmaputra	Assam	26.1753	91.6694
	Pandu	Aug-19	0.45	Brahmaputra	Assam	26.1753	91.6694
	Pandu	Jun-20	0.50	Brahmaputra	Assam	26.1753	91.6694
	Pandu	Jun-20	3.10	Brahmaputra	Assam	26.1753	91.6694
305	Panposh	Aug-19	0.50	Brahmani	Odisha	22.2772	84.8519
	Panposh	Jun-20	1.07	Brahmani	Odisha	22.2772	84.8519
306	Panposh I	Jun-20	0.77	Sankh	Odisha	22.2376	84.8033
307	Panposh II	Jun-20	0.88	Koel	Odisha	22.2376	84.8033
308	Parmarth Ghat	Jun-20	0.76	Ganga	Uttar Pradesh	26.4872	80.3445
309	Parsohan Ghat	Jun-20	0.78	Ratpi (Burhi Rapti)	Uttar Pradesh	27.3953	82.5625
310	Passighat	Aug-19	0.67	Siang	Arunachal Pradesh	28.0731	95.3403
311	PATACHARKUCHI	Dec-20	1.01	Kalodiya	Assam	26.5053	91.2364
312	Patala	Aug-19	0.78	Wardha	Maharashtra	20.1261	79.0008
	Patala	Dec-20	0.59	Wardha	Maharashtra	20.1261	79.0008
313	Patan	Aug-19	1.58	Hiran	Madhya Pradesh	23.3111	79.6619
	Patan	May-20	0.51	Hiran	Madhya Pradesh	23.3111	79.6619
314	Patansaongi	Dec-20	1.35	Chandrabhaga	Maharashtra	21.3211	79.0247
315	Pathagudem	Aug-19	5.00	Indravati	Chattisgarh	18.8525	80.3494

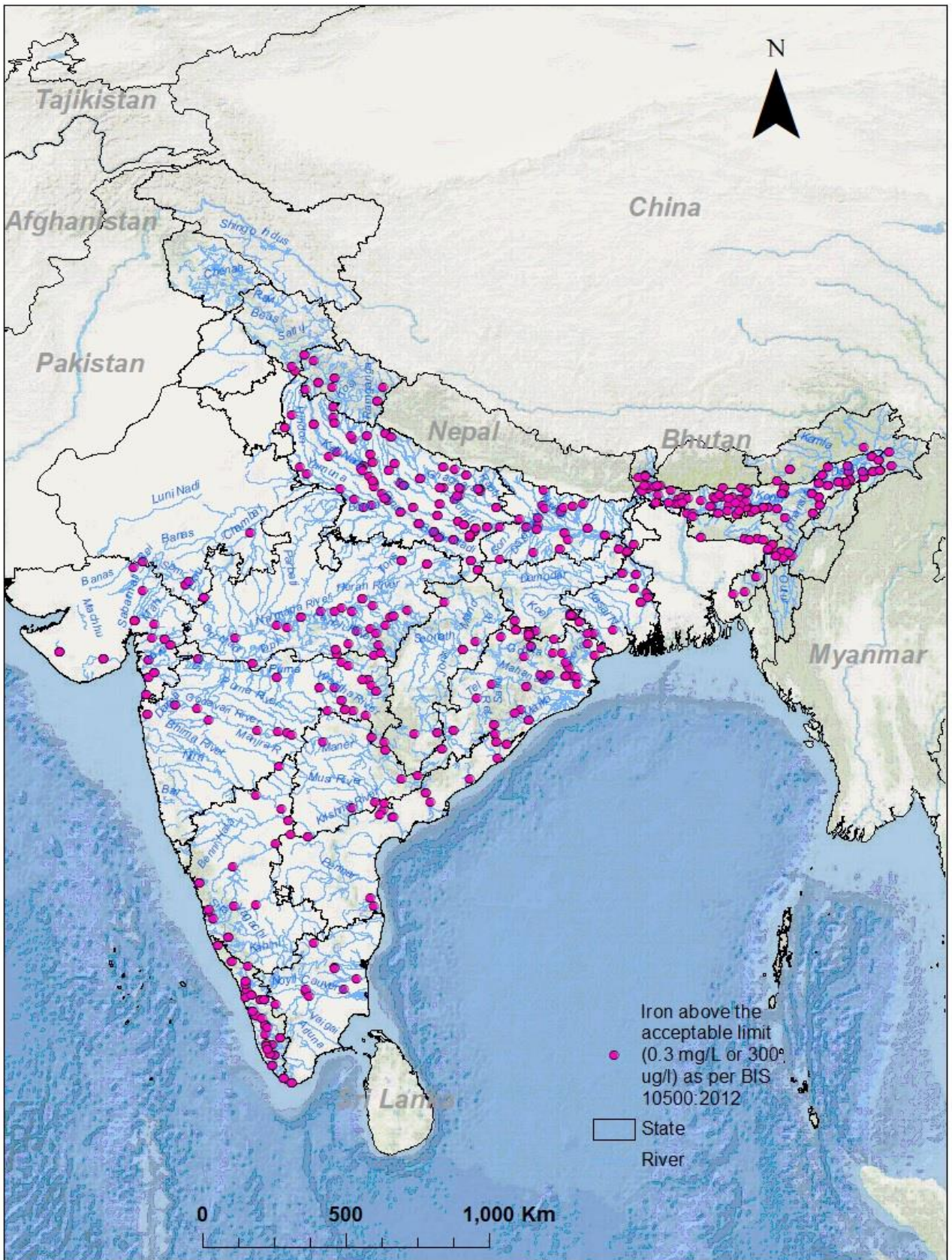
S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
316	Pattazhy	Dec-19	0.43	Kallada	Kerala	9.0728	76.7611
	Pattazhy	Dec-19	1.29	Kallada	Kerala	9.0728	76.7611
	Pattazhy	Dec-20	0.89	Kallada	Kerala	9.0728	76.7611
317	Pauni	Aug-19	4.32	Wainganga	Maharashtra	20.7930	79.6483
318	Perumannu	Apr-19	0.65	Valapatnam	Kerala	11.9814	75.5875
	Perumannu	Dec-19	0.38	Valapatnam	Kerala	11.9814	75.5875
319	Perur	Aug-18	0.37	Godavari	Telangana	18.5872	80.3958
	Perur	Aug-19	3.21	Godavari	Telangana	18.5872	80.3958
320	Pingalwada	Aug-19	1.60	Dhadhar(Independent river)	Gujarat	22.1108	73.0786
321	Pohumara	Dec-20	1.44	Pohumara	Assam	26.4817	91.1164
322	Polavaram	Aug-18	0.45	Godavari	Andhra Pradesh	17.2519	81.6564
	Polavaram	Aug-19	4.75	Godavari	Andhra Pradesh	17.2519	81.6564
323	PRAKASHAM BARRAGE	Aug-19	0.91	Krishna	Andhra Pradesh	16.5078	80.6053
324	Pratapgarh	Aug-18	1.33	Sai	Uttar Pradesh	25.9347	82.0019
	Pratapgarh	Jun-20	1.03	Sai	Uttar Pradesh	25.9347	82.0019
	Pratapgarh	Dec-20	0.88	Sai	Uttar Pradesh	25.9347	82.0019
325	Pudur	Dec-18	1.05	Kannadipuzha	Kerala	10.7800	76.5750
	Pudur	Apr-19	0.33	Kannadipuzha	Kerala	10.7800	76.5750
	Pudur	Dec-19	0.57	Kannadipuzha	Kerala	10.7800	76.5750
	Pudur	Dec-19	0.51	Kannadipuzha	Kerala	10.7800	76.5750
	Pudur	Dec-20	0.59	Kannadipuzha	Kerala	10.7800	76.5750
326	Pulamanthole	Dec-19	0.36	Pulanthodu	Kerala	10.8992	76.1972
	Pulamanthole	Dec-19	0.71	Pulanthodu	Kerala	10.8992	76.1972
327	Pullukukku	Dec-19	0.36	Kumaradhara	Karnataka	12.7112	75.4692
	Pullukukku	Dec-19	0.68	Kumaradhara	Karnataka	12.7112	75.4692
	Pullukukku	Dec-20	0.69	Kumaradhara	Karnataka	12.7112	75.4692
328	Purna	Aug-19	1.83	Purna	Maharashtra	19.1758	77.0131
329	Purunagarh	Jun-20	0.91	Baliapita	Odisha	21.5264	84.7125
330	Purushottampur	Aug-18	0.34	Rushikulya	Odisha	19.5167	84.8833
	Purushottampur	Aug-19	0.40	Rushikulya	Odisha	19.5167	84.8833
	Purushottampur	Jun-20	0.84	Rushikulya	Odisha	19.5167	84.8833
331	Puthimari	Jun-20	0.63	Puthimari	Assam	26.3667	91.6533
332	Raibareli	Aug-19	0.96	Sai	Uttar Pradesh	26.1986	81.2511
	Raibareli	Jun-20	0.87	Sai	Uttar Pradesh	26.1986	81.2511
333	RAJAHMUNDRY	Aug-19	1.38	Godavari	Andhra Pradesh	16.9661	81.7831
334	Rajegaon	Aug-18	0.44	Bagh	Madhya Pradesh	21.6256	80.2539
	Rajegaon	Aug-19	4.30	Bagh	Madhya Pradesh	21.6256	80.2539
335	Rajghat (S)	Jun-20	0.84	Subarnarekha	Odisha	21.7678	87.1642
336	Ramakona	Aug-18	0.34	Kanhan	Madhya Pradesh	21.7189	78.8242
	Ramakona	Aug-19	0.78	Kanhan	Madhya Pradesh	21.7189	78.8242
337	Ramamangalam	Dec-19	0.48	Muvattupuzha	Kerala	10.8992	76.1972
	Ramamangalam	Dec-20	0.30	Muvattupuzha	Kerala	10.8992	76.1972
338	RAMDIA	Dec-20	1.55	Kolong	Assam	26.2556	91.4726
339	Ranganadi NT-Road Crossing	Apr-19	1.24	Ranganadi	Assam	27.2039	94.0563
	Ranganadi NT-Road Crossing	Aug-19	9.28	Ranganadi	Assam	27.2039	94.0563
	Ranganadi NT-Road Crossing	Dec-19	0.49	Ranganadi	Assam	27.2039	94.0563
340	Rangeli	Dec-19	1.50	som	Rajasthan	23.8728	74.2236
	Rangeli	Dec-20	0.61	som	Rajasthan	23.8728	74.2236
341	RANGPO	Aug-19	0.66	Rangpochu	Sikkim	27.1722	88.5297
	RANGPO	Dec-20	1.00	Rangpochu	Sikkim	27.1722	88.5297
342	Reguali	Aug-19	0.35	Ghaghra	Uttar Pradesh	26.7592	83.2906
	Reguali	Jun-20	0.76	Ghaghra	Uttar Pradesh	26.7592	83.2906
343	Renukaji	Dec-20	0.45	Giri	Himachal Pra-	30.6044	77.4411

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
					desh		
344	Rishikesh	Dec-18	0.34	Ganga	Uttarakhand	30.1008	78.3039
	Rishikesh	Aug-19	4.24	Ganga	Uttarakhand	30.1008	78.3039
	Rishikesh	Aug-19	4.24	Ganga	Uttarakhand	30.1008	78.3039
345	ROORKEE D/S	Jun-20	0.33	Saloni	Uttrakhand	29.8803	77.8975
346	RSP-I	Aug-19	0.43	Brahmani	Odisha	22.2108	84.8733
	RSP-I	Jun-20	0.76	Brahmani	Odisha	22.2108	84.8733
347	RSP-II	Aug-19	0.35	Brahmani	Odisha	22.3522	84.4592
	RSP-II	Jun-20	0.87	Brahmani	Odisha	22.3522	84.4592
348	RSP-III	Aug-19	0.41	Brahmani	Odisha	22.3522	84.4592
	RSP-III	Jun-20	0.80	Brahmani	Odisha	22.3522	84.4592
349	Saidpur	Jun-20	0.89	Ganga	Uttar Pradesh	25.5339	83.2211
	Saidpur	Jun-20	0.92	Ganga	Uttar Pradesh	25.5339	83.2211
350	Saigaon	Sep-20	0.32	Manjira	Karnataka	18.0758	77.0525
351	Sakhra	Dec-20	0.41	Wainganga	Maharashtra	20.6213	79.9372
352	Sandia	Aug-19	0.97	Narmada	Madhya Pradesh	22.9158	78.3475
353	SANKOSH LRP	Aug-19	0.71	Sankosh	West Bengal	26.4578	89.8581
354	Santheguli	Dec-19	0.37	Aghnanashini	Karnataka	14.4344	74.5556
	Santheguli	Dec-19	0.39	Aghnanashini	Karnataka	14.4344	74.5556
	Santheguli	Dec-20	0.43	Aghnanashini	Karnataka	14.4344	74.5556
355	Saradaput	Aug-19	0.95	Sabari	Odisha	18.6125	82.1428
	Saradaput	Dec-20	0.42	Sabari	Odisha	18.6125	82.1428
356	Sarangkheda	Aug-18	0.38	Tapi	Maharashtra	21.4283	74.5272
	Sarangkheda	Aug-19	1.27	Tapi	Maharashtra	21.4283	74.5272
357	Satna	Jun-20	0.91	Tons	Madhya Pradesh	24.5333	80.8883
	Satna	Jun-20	0.99	Tons	Madhya Pradesh	24.5333	80.8883
	Satna	Jun-20	0.47	Tons	Madhya Pradesh	24.5333	80.8883
358	SATPOKHALI	Dec-20	2.35	Koa	Assam	26.0681	91.4592
359	SATPULI D/S	Jun-20	0.31	Nayar	Uttrakhand	29.9375	78.7022
360	Satrapur	Aug-19	1.57	Kanhan	Maharashtra	21.2167	79.2331
361	Seppa	Aug-18	0.63	Kameng	Arunachal Pradesh	27.3573	93.0389
	Seppa	Dec-18	0.68	Kameng	Arunachal Pradesh	27.3573	93.0389
	Seppa	Apr-19	1.05	Kameng	Arunachal Pradesh	27.3573	93.0389
362	SEVOKE	Aug-19	0.71	Teesta	West Bengal	26.8817	88.4769
363	Shahjahanpur	Aug-19	0.33	Khannaut	Uttar Pradesh	27.8500	79.9086
	Shahjahanpur	Jun-20	0.78	Khannaut	Uttar Pradesh	27.8500	79.9086
364	Shahzadpur	Aug-18	0.33	Ganga	Uttar Pradesh	25.6667	81.4300
	Shahzadpur	Jun-20	1.55	Ganga	Uttar Pradesh	25.6667	81.4300
	Shahzadpur	Jun-20	0.98	Ganga	Uttar Pradesh	25.6667	81.4300
	Shahzadpur	Jun-20	0.85	Ganga	Uttar Pradesh	25.6667	81.4300
365	SHALADANG	Aug-19	0.82	Kaljani	West Bengal	26.3011	89.5867
366	Shastri Bridge	Jun-20	0.92	Ganga	Uttar Pradesh	25.4366	81.8892
	Shastri Bridge	Jun-20	0.88	Ganga	Uttar Pradesh	25.4366	81.8892
	Shastri Bridge	Jun-20	0.82	Ganga	Uttar Pradesh	25.4366	81.8892
367	Shella	May-20	0.49	Umiew	Meghalaya	25.1956	91.6353
	Shella	Jun-20	0.64	Umiew	Meghalaya	25.1956	91.6353
368	SHOLMARI	Dec-20	1.32	Harianadi	Assam	26.3139	91.3400
369	Sikandarpur	Aug-19	0.69	Burhi Gandak	Bihar	26.1428	85.3761
370	Sitapur	Aug-19	2.28	Sarayan	Uttar Pradesh	27.5719	80.6856
	Sitapur	Jun-20	0.71	Sarayan	Uttar Pradesh	27.5719	80.6856
371	Sivasagar	Aug-18	1.32	Dikhow	Assam	26.9819	94.5792
	Sivasagar	Dec-18	0.44	Dikhow	Assam	26.9819	94.5792
	Sivasagar	Apr-19	0.33	Dikhow	Assam	26.9819	94.5792

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
	Sivasagar	Aug-19	9.75	Dikhow	Assam	26.9819	94.5792
	Sivasagar	Dec-19	1.11	Dikhow	Assam	26.9819	94.5792
372	Sonamura	Aug-19	0.64	Gumti	Tripura	23.4731	91.2667
373	Sonapur	Apr-19	0.66	Digaru	Assam	26.1204	91.9784
	Sonapur	Aug-19	1.93	Digaru	Assam	26.1204	91.9784
	Sonapur	Aug-19	0.40	Digaru	Assam	26.1204	91.9784
	Sonapur	Jun-20	0.59	Digaru	Assam	26.1204	91.9784
	Sonapur	Dec-20	0.33	Digaru	Assam	26.1204	91.9784
374	Sorada	Jun-20	0.89	Rushikulya	Odisha	19.7556	84.4431
375	SOUTH SALMARA	Dec-20	0.69	Brahmaputra	Assam	25.8881	90.0158
376	Srikakulam	Jun-20	1.30	Nagavali	Andhra Pradesh	18.3133	83.8842
377	Srinagar	Aug-19	0.46	Alaknanda	Uttarakhand	30.2258	78.7756
	Srinagar	Aug-19	0.46	Alaknanda	Uttarakhand	30.2258	78.7756
378	Sripalpur	Dec-18	0.33	Punpun	Bihar	25.5002	85.1096
	Sripalpur	Aug-19	1.58	Punpun	Bihar	25.5002	85.1096
379	Suklai	Aug-19	1.29	Suklai	Assam	26.6539	91.7153
	Suklai	Jun-20	0.71	Suklai	Assam	26.6539	91.7153
	Suklai	Dec-20	0.33	Suklai	Assam	26.6539	91.7153
380	Sullurpet	Dec-19	0.62	Kalingi	Andhra Pradesh	13.7078	80.0100
381	Sultanpur	Aug-18	0.32	Gomti	Uttar Pradesh	26.2758	82.0678
	Sultanpur	Jun-20	0.86	Gomti	Uttar Pradesh	26.2758	82.0678
382	Sundargarh	Aug-18	1.29	Ib	Odisha	22.1153	84.0111
383	Swampatna	Jun-20	1.04	Baitarani	Odisha	21.6167	85.9167
384	Syohara	Jun-20	0.80	Ramganga	Uttar Pradesh	29.3267	78.7597
385	T.Ramapuram	Sep-20	0.85	Hagari	Karnataka	15.6611	76.9628
386	Talcher	Jun-20	0.80	Brahmani	Odisha	20.9500	85.2500
387	Tanda D/S	Jun-20	0.86	Ghaghra	Uttar Pradesh	26.5449	82.6999
388	Tanda U/S	Jun-20	0.80	Ghaghra	Uttar Pradesh	26.5334	82.6262
389	Tekra	Aug-18	0.34	Pranhita	Maharashtra	18.9783	79.9469
	Tekra	Aug-19	0.40	Pranhita	Maharashtra	18.9783	79.9469
390	Tezpur	Aug-18	0.55	Brahmaputra	Assam	26.6156	92.7967
	Tezpur	Dec-18	0.31	Brahmaputra	Assam	26.6156	92.7967
	Tezpur	Apr-19	1.21	Brahmaputra	Assam	26.6156	92.7967
	Tezpur	Aug-19	4.94	Brahmaputra	Assam	26.6156	92.7967
	Tezpur	Dec-19	0.53	Brahmaputra	Assam	26.6156	92.7967
391	Tezu	Aug-18	0.34	Lohit	Arunachal Pradesh	27.9108	96.1706
	Tezu	Aug-19	1.76	Lohit	Arunachal Pradesh	27.9108	96.1706
392	Therriaghat	Dec-18	0.87	Umsohryn-kiew	Meghalaya	25.1800	91.7678
	Therriaghat	May-20	0.54	Umsohryn-kiew	Meghalaya	25.1800	91.7678
393	Thottathinkadavu	Dec-19	0.82	Iruvazhinjipuzha	Kerala	11.3620	76.0019
	Thottathinkadavu	Dec-19	0.50	Iruvazhinjipuzha	Kerala	11.3620	76.0019
394	Thumpamon	Dec-19	1.83	Achankovil	Kerala	9.2250	76.7147
	Thumpamon	Dec-19	0.70	Achankovil	Kerala	9.2250	76.7147
	THUMPAMON	Dec-20	0.37	Achankovil	Kerala	9.2250	76.7147
395	Tihar Khera	Jun-20	0.87	Ramganga	Uttar Pradesh	28.4164	79.2883
396	Tikarapara	Aug-19	1.62	Mahanadi	Odisha	20.5894	84.7833
	Tikarapara	Jun-20	0.91	Mahanadi	Odisha	20.5894	84.7833
397	Tilga	Aug-18	0.39	Sankh	Jharkhand	22.6233	84.4175
	Tilga	Jun-20	1.21	Sankh	Jharkhand	22.6233	84.4175
398	Todarpur	Aug-19	0.83	sukheta	Uttar Pradesh	27.5846	79.9952
	Todarpur	Jun-20	0.82	sukheta	Uttar Pradesh	27.5846	79.9952

S.No.	Name of Site	Month /year	Iron (mg/L)	River	State	Latitude	Longitude
399	Tufanganj	Aug-19	0.61	Raidak-i	West Bengal	26.3089	89.6756
400	Tuini/pabar	Dec-20	0.34	Pabar	Uttarakhand	30.9603	77.8536
401	Tuini/tons	Dec-20	0.88	Tons	Uttarakhand	30.9397	77.8467
402	Turtipar	Aug-19	0.46	Ghaghra	Uttar Pradesh	26.1667	83.8636
	Turtipar	Dec-19	2.80	Ghaghra	Uttar Pradesh	26.1667	83.8636
	Turtipar	Jun-20	0.76	Ghaghra	Uttar Pradesh	26.1667	83.8636
403	Udaipur	Aug-18	8.55	Tirap	Assam	27.3369	95.8517
	Udaipur	Dec-18	0.43	Tirap	Assam	27.3369	95.8517
	Udaipur	Apr-19	1.24	Tirap	Assam	27.3369	95.8517
	Udaipur	Aug-19	2.23	Tirap	Assam	27.3369	95.8517
	Udaipur	Dec-19	0.70	Tirap	Assam	27.3369	95.8517
404	V.S. Bridge	Aug-19	0.34	Ganga	Uttar Pradesh	25.2552	83.0253
	V.S. Bridge	Jun-20	0.87	Ganga	Uttar Pradesh	25.2552	83.0253
	V.S. Bridge	Jun-20	0.89	Ganga	Uttar Pradesh	25.2552	83.0253
	V.S. Bridge	Jun-20	0.89	Ganga	Uttar Pradesh	25.2552	83.0253
	V.S. BRIDGE	Dec-20	0.64	Ganga	Uttar Pradesh	25.2552	83.0253
405	Vandiperiyar	Dec-18	0.34	Periyar	Kerala	9.5733	77.0908
	Vandiperiyar	Dec-19	0.86	Periyar	Kerala	9.5733	77.0908
	Vandiperiyar	Dec-19	0.68	Periyar	Kerala	9.5733	77.0908
406	Vapi	Aug-18	1.03	Damanganga	Gujarat	20.3389	72.9117
	Vapi	Aug-19	0.79	Damanganga	Gujarat	20.3389	72.9117
407	Varanasi	Aug-18	0.37	Ganga	Uttar Pradesh	25.3236	83.0375
	Varanasi	Jun-20	0.88	Ganga	Uttar Pradesh	25.3236	83.0375
	Varanasi	Jun-20	0.90	Ganga	Uttar Pradesh	25.3236	83.0375
408	Varanavasi	Aug-19	0.85	Marudaiyar	Tamil Nadu	11.0925	79.0850
409	Vautha	Dec-18	0.47	Sabarmati	Gujarat	22.6503	72.5331
	Vautha	Apr-19	0.56	Sabarmati	Gujarat	22.6503	72.5331
	Vautha	Aug-19	1.08	Sabarmati	Gujarat	22.6503	72.5331
	Vautha	Dec-19	0.50	Sabarmati	Gujarat	22.6503	72.5331
	Vautha	Dec-20	1.89	Sabarmati	Gujarat	22.6503	72.5331
410	Vijayawada	Aug-19	0.52	Krishna	Andhra Pradesh	16.5011	80.6250
411	Wairagarh	Aug-18	0.40	Khobragarhi	Maharashtra	20.4219	80.0917
	Wairagarh	Aug-19	0.67	Khobragarhi	Maharashtra	20.4219	80.0917
412	YADGIR	Aug-19	0.34	Bhima	Karnataka	16.7375	77.1253
413	Yelli	Aug-19	0.33	Godavari	Maharashtra	19.0439	77.4556
414	Yennehole	Dec-19	0.39	Swarna	Karnataka	13.2942	74.9806





*Figure 12: WQ monitoring stations where Iron exceeded the acceptable limits.*

## Summary of Zinc content in Indian Rivers

Zinc is an essential element for all living things, including man. Zinc-containing proteins and enzymes are involved in every aspect of metabolism, including the replication and translation of genetic material. BIS has recommended 5 mg/L (5000 µg/L) acceptable concentration of zinc in drinking water, which can be extended to 15 mg/L in case no alternative source of water is available, but the water with more than 5000 µg/L zinc content is not suitable for drinking purpose.

Total 3113 water samples from the 688 water quality monitoring stations were analyzed during the reporting period. Maximum Zinc concentration (1.70 mg/L) was observed at Belkheri water quality monitoring station on Sher River (Tributary of Narmada River) during May, 2020. In the study area, all the river water quality stations are reported to have zinc concentration well within the acceptable and permissible limits of Bureau of Indian Standards (BIS) and no toxicity of Zinc in the River waters is observed.

## 9. CONCLUSION

A comprehensive study of the results reveals that out of 688 River water quality stations monitored, water samples collected at 180 water quality stations are found within the permissible limit as far as toxic metals are concerned according to the BIS: 10500-2012 (**Figure 13**). While 187 stations were found beyond the permissible limit due to presence of two or more toxic metals (As/Cd/Cr/Cu/Pb/Ni/Fe).

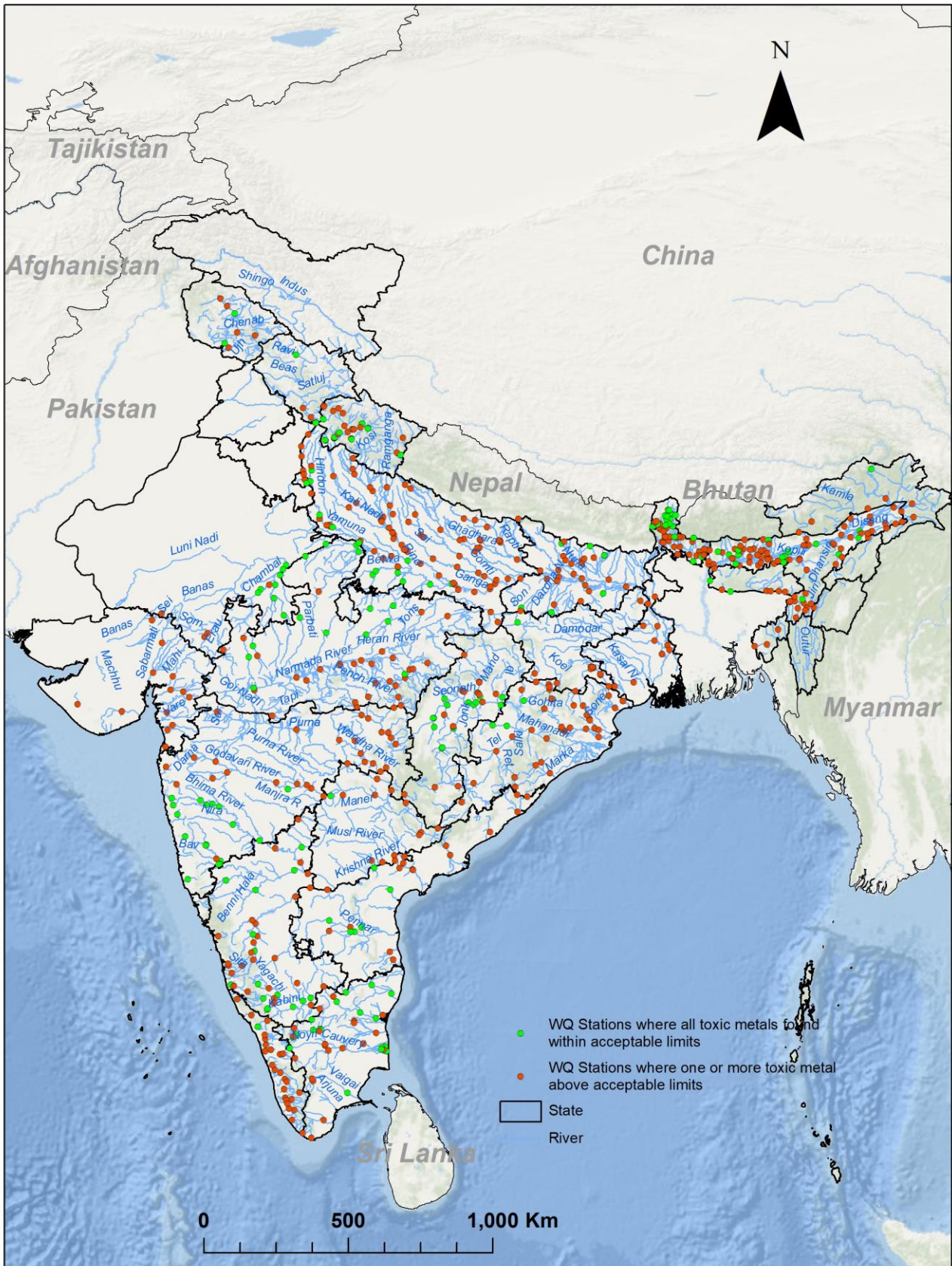
Further, river water at 240 numbers of stations was found beyond the acceptable limit with respect to only Iron concentration according to the BIS: 10500-2012. Similarly, river water is found beyond the acceptable limit at 2 stations due to presence of only arsenic, 2 stations due to presence of only copper, 1 station due to presence of only cadmium, at 7 stations due to presence of only Chromium, at 61 stations due to presence of only nickel and 8 stations due to presence of only lead contamination. Summary of contamination of different toxic metals are given in **Table 18 & 19**:

*Table 18: Analysis Statistic*

S. No	Metals	Total Analysed Samples	Total Contaminated Samples	Total Contaminated Stations
1	As	2834	8	8
2	Cd	3113	11	11
3	Cr	3106	50	46
4	Cu	3107	17	17
5	Pb	3111	36	34
6	Ni	3099	265	199
7	Fe	3113	756	414
8	Zn	3113	0	0

*Table 19: Summary*

S. No	Parameters	No. of Sites/Stations
1	Arsenic only	2
2	Cadmium only	1
3	Chromium only	7
4	Copper only	2
5	Lead only	8
6	Nickel only	61
7	Iron only	240
8	Two or More metals	187
<b>Total Contaminated WQ Stations</b>		<b>508</b>
<b>Total WQ Stations where all toxic metals found within acceptable limits</b>		<b>180</b>
<b>Total Stations studied</b>		<b>688</b>



**Figure 13: Water Quality Polluted and Unpolluted Station in respect to Toxic metals**

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## List of 688 Water Quality Monitoring Stations

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	A.B.Road Crossing	Parwati	Madhya Pradesh	Guna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Parwati	24.3658	77.0989
2	Abu Road	Banas	Rajasthan	Sirohi	West flowing rivers of Kutchh and Saurashtra including Luni	Banas	24.4939	72.7917
3	Addoor	Gurupur	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Gurupur	12.9289	74.9539
4	Adityapur	Kharkai	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha/Kharkai	22.7914	86.1736
5	Agra (J.B.)	Yamuna	Uttar Pradesh	Agra (J.B)	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2039	78.0350
6	Agra (P.G.)	Yamuna	Uttar Pradesh	Agra(P.G)	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2542	78.0231
7	Aie NH Crossing	Aie	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Aie	26.4975	90.6547
8	Akabarpur	Chhoti Sarju	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Chhoti Sarju	26.4303	82.5619
9	Akhnoor	Chenab	Jammu & Kashmir	Jammu	Indus Basin	Chenab	32.9008	74.7589
10	Akhuapada	Baitarni	Odisha	Bhadrak	Brahmani-Baitarni	Baitarni	20.9156	86.2747
11	Akkihebbal	Hemavati	Karnataka	Mandya	Cauvery	Hemavati	12.6028	76.4028
12	Aklera	Parwan	Rajasthan	Jhalawar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna /Chambal/Kalisindh/Parwan	24.4297	76.6039
13	Alandurai	Noyyal	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Noyyal	10.9523	76.7853
14	Alladupalli	Kunderu	Andhra Pradesh	Kadapa	Pennar	Pennar/Kunderu	14.7172	78.6686
15	Altuma	Ramyala	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani/Ramyala	20.9297	85.5189
16	Amarpur	Gumti	Tripura	South Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/Gumti	23.5244	91.6514
17	Ambarampalayam	Aliyar	Tamil Nadu	Coimbatore	West Flowing Rivers from Tadri to Kanyakumari	Bharathapuzha/ Kannadipuzha/ Aliyar	10.6303	76.9461
18	Ambari	Kaljani	West Bengal	Coochbehar	Ganga/Brahmaputra/Meghna/Barak	Kaljani	26.4164	89.5417
19	Ambasamudram	Vaigai	Tamil Nadu	Theni	East Flowing rivers between Pennar and Kanyakumari	Vaigai	9.9256	77.5117
20	Ambgaon ( Bagdi)	Chulband	Maharashtra	Bhandara	Godavari Basin	Godavari/Pranhita/Wainganga/ Chulband	20.7783	79.8513
21	Amraghat	Sonai	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Sonai	24.6678	92.8924
22	Anakapalli	Sarada	Andhra Pradesh	Visakhapatnam	East Flowing rivers between Mahanadi and Pennar	Sarada	17.6800	83.0200
23	Anandpur	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.2111	86.1206

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
24	Andhiyarkhore	Hamp	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi/ Seonath/Hamp	21.8317	81.6058
25	Ankinghat	Ganga	Uttar Pradesh	Kanpur Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.9347	80.0361
26	Anna Purna Ghat	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.8189	92.7917
27	Annavasal	Nattar	Pondicherry	Karaikal	Cauvery	Cauvery/Nattar	10.9725	79.7556
28	Aradei	Aradei	Odisha	Keonjhar	Brahmani-Baitarni	Aradei	20.8595	86.4023
29	Arangaly	Chalakydy	Kerala	Thrissur	West Flowing rivers from Tadri to Kanyakumari	Periyar/Chalakydy	10.2814	76.3153
30	Arcot	Palar	Tamil Nadu	Ranipet	East Flowing rivers between Pennar and Kanyakumari	Palar	12.9139	79.3333
31	Arjunwad (Seasonal)	Krishna	Maharashtra	Kolhapur	Krishna	Krishna	16.7808	74.6333
32	Ashramam	Pazhayar	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Pazhayar	8.1593	77.4597
33	Ashti	Wainganga	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga	19.6867	79.7839
34	Augustmuni D/S	Mandakani	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Mandakani	30.3922	79.0219
35	Augustmuni U/S	Mandakani	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Mandakani	30.4000	79.0417
36	Auraiya	Yamuna	Uttar Pradesh	Auraiya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.4272	79.4181
37	AVARANKUPPAM	Palar	Tamil Nadu	Vellore	East Flowing rivers between Pennar and Kanyakumari	Palar	12.6842	78.5394
38	Avershe	Seetha	Karnataka	Udupi	West Flowing rivers from Tadri to Kanyakumari	Seetha	13.5214	74.8800
39	Ayilam	Vamanapuram	Kerala	Thiruvanthapuram	West Flowing rivers from Tadri to Kanyakumari	Vamanapuram	8.7150	76.8500
40	Ayodhya	Ghaghra	Uttar Pradesh	Faizabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.8136	82.2078
41	Azmabad	Ganga	Bihar	Bhagalpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3275	87.2597
42	Bachhwara	Gaya	Bihar	Begusarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gaya	25.5747	85.8887
43	Badar Pur Ghat	Barak	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Barak	24.8733	92.5167
44	Badatighat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	26.9347	93.9622
45	Badlapur	Ulhas	Maharashtra	Thane	West flowing rivers from Tapi to Tadri	Ulhas	19.1622	73.2544
46	Baghpat	Yamuna	Uttar Pradesh	Baghpat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.9397	77.2064
47	Bahalpur	Champamati	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Champamati	26.3182	90.4695
48	Bairgania	Burhi Gandak	Bihar	East Champaran	Ganga/Brahmaputra/Meghna/Barak	Ganga/Burhi Gandak	26.6723	85.2494
49	Bakcha Chu	BakchaChu	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	BakchaChu/ Dikchu/ Teesta	27.4172	88.6306

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
50	Bakhari (in place of seoni chapara)	Wainganga	Madhya Pradesh	Wainganga	Godavari	Godavari/Pranhita/Wainganga	22.3244	79.4678
51	BALADOBA	Ganghadhar	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Ganghadhar	26.0189	89.8294
52	Baleni U/S of Gha-ziabad	Hindon	Uttar Pradesh	Baghpath	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Hindon	28.9586	77.4700
53	Balighat	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	24.8717	85.8473
54	Balrampur	Rapti	Uttar Pradesh	Balrampur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	27.4500	82.2125
55	Baltara	Kosi	Bihar	Khagaria	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi	25.5415	86.7225
56	Baluaghat	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.4206	83.1836
57	Bamni	Wardha	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha	19.8139	79.3794
58	Bamni (Banjar)	Banjar	Madhya Pradesh	Mandla	Narmada	Narmada/Banjar	22.4842	80.3781
59	Bamnidhi	Hasdeo	Chattisgarh	Korba	Mahanadi	Mahanadi/Hasdeo	21.8986	82.7117
60	Banda	Ken	Uttar Pradesh	Banda	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken	25.4833	80.3133
61	Banga-pani(Munsyari)	Gauri Ganga	Uttarakhand	Pithoragarh	Ganga/Brahmaputra/Meghna/Barak	Mahalai/Gauri Ganga	29.9592	80.3042
62	BANGLABASTI	Koa	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Koa	26.1991	92.6726
63	Banjari	Sone	Bihar	Rohtas	Ganga/Brahmaputra/Meghna/Barak	Sone	24.6653	83.9978
64	Banka	Chandan	Bihar	Banka	Ganga/Brahmaputra/Meghna/Barak	Chandan	25.1117	86.5475
65	Banpur	Mathabhanga	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Padma/Mathabhanga	24.1084	87.7989
66	Bansi	Rapti	Uttar Pradesh	Siddarthnagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	27.1833	82.9325
67	Bantwal	Nethravathi	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Nethravathi	12.8808	75.0411
68	Baranwada	Banas	Rajasthan	Sawai-madhopur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Banas	26.0000	76.6667
69	Bareilly	Ramganga	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	28.2992	79.3667
70	Baridhi	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.7994	86.2489
71	Baripada	Burhabalang	Odisha	Mayurbhanj	Subarnarekha	Burhabalang	21.9311	86.7186
72	Barmanghat	Narmada	Madhya Pradesh	Narsinghpur	Narmada	Narmada	23.0308	79.0156
73	Barobisha	Raidak-II	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra / Sankosh / Raidak-II	26.4744	89.7853
74	Barod	Kalisindh	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Kalisindh	25.3833	76.3339
75	Baronda	Pairi	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi/Pairi	20.9125	81.8861
76	Basantpur	Mahanadi	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi	21.7267	82.7881

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
77	Basoda	Betwa	Madhya Pradesh	Vidisha	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	23.8872	77.9203
78	Basti	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7839	82.7131
79	Basti D/S	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7653	82.7324
80	Basti U/S	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7974	82.7078
81	Bawapuram	Tungabhadra	Andhra Pradesh	Kurnool	krishna	Krishna/ Tungabhadra	15.8833	77.9572
82	Beki Road bridge	Beki	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Beki	26.4941	90.9162
83	Belkheri	Sher	Madhya Pradesh	Narsinghpur	Narmada	Narmada/Sher	22.9278	79.3397
84	Belne Bridge	Gad	Maharashtra	Sindudurg	west flowing rivers from tapi to tadri	Gad	16.2167	73.6083
85	Belodi	Seonath	Chattisgarh	Durg	Mahanadi	Seonath	21.2331	81.2699
86	Bendrahalli	Suvarnavathi	Karnataka	Chamarajanagar	Cauvery	Suvarnavathi	12.1536	76.0800
87	Berhampore	Bhagirathi	West Bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	24.0911	88.2431
88	BG Road / Ligribari (B.G Road)	Brahmaputra	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	27.0669	94.5317
89	Bhadana Village D/s of Kota City	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.2397	75.8800
90	Bhadrachalam	Godavari	Telangana	Khammam	Godavari Basin	Godavari	17.6681	80.8772
91	Bhalukpong	Kameng	Arunachal Pradesh	West Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.0167	92.6419
92	Bhalwara	Gaur	Madhya Pradesh	Jabalpur	Narmada	Gaur	23.1147	79.9961
93	Bhatpalli	Peddavagu	Telangana	Kumrambhim	Godavari Basin	Godavari/Pranhita/Peddavagu	19.3303	79.5042
94	Bhind	Kunwari	Madhya Pradesh	Bhind	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind/Kunwari	26.6078	78.8567
95	Bhitaura	Ganga	Uttar Pradesh	Fatehpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.0431	80.8542
96	Bhomoraguri	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6103	92.8603
97	Bido	Brahmani	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani	20.8086	85.3473
98	Bihubar	Dikhow	Assam	Sivasagar	Ganga/Brahmaputra/Meghna/Barak	Dikhow	26.8558	94.7994
99	Biligundulu	Cauvery	Tamil Nadu	Krishnagiri	Cauvery	Cauvery	12.1822	77.7239
100	Birdghat	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7444	83.3400
101	Biswanath Ghat ( In place of Tinsukia Marigaon)	Brahmaputra	Assam	Biswanath	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6585	93.1723

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
102	Bithoor	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.6169	80.2756
103	Bokajan	Dhansari(South)	Assam	Karbi Anglong	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.0161	93.7872
104	Bolani	Brahmani	Odisha	Sundargarh	Brahmani-Baitarni	Brahmani	22.1300	84.8800
105	Bonaigarh	Rukura	Odisha	Sundergarh/ Odisha	Brahmani-Baitarni	Brahmani/Rukura	21.8200	84.9500
106	Bop	Lachung Chu	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Laching Chu	27.6017	88.6625
107	Borkhola	Jatinga	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Jatinga	24.9243	92.7533
108	Boudh	Mahanadi	Odisha	Boudh/ Odisha	Mahanadi	Mahanadi/ Mahanadi	20.8550	84.3167
109	Burhanpur	Tapi	Madhya Pradesh	Khandwa	Tapi	Tapi	21.2994	76.2350
110	Buxar	Ganga	Bihar	Buxar	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5769	83.9756
111	Byaladahalli	Tunga	Karnataka	Davanagere	krishna	Krishna/Tungabhadra/ Tunga	14.4339	75.7797
112	Byrnihat	Umtru	Meghalaya	Ri-Bhoi	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Umtru	26.0403	91.8658
113	C.R.B.	Hasdeo	Chattisgarh	Bilaspur	Mahanadi	Hasdeo	22.0244	82.6417
114	C.S-97 A, Farakka	Ganga	West Bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	24.7908	87.9367
115	CHAKLAGAON	Manas	Assam	Bongaigaon	Ganga/Brahmaputra/Meghna/Barak	Manas	26.3850	90.8069
116	Champasari	Mahananda	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda	26.7392	88.4228
117	Champua	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	22.0658	85.6733
118	Chandrika Devi	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.9332	80.8627
119	Chandwada	Orsang	Gujarat	Vadodara	Narmada	Narmada/Orsang	22.0500	73.4661
120	CHANGSARI	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2547	91.6603
121	Chapra	Jalangi	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi/Jalangi	23.5042	88.5514
122	CHEL	Chel	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Chel	26.8636	88.6350
123	Chengalpet	Palar	Tamil Nadu	Kancheepuram	East Flowing rivers between Pennar and Kanyakumari	Palar	12.6500	79.9472
124	Chenimari	Buridehing	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.3114	94.8825
125	Chennur	Pennar	Andhra Pradesh	Kadapa	Pennar	Pennar	14.5722	78.8000
126	Chepan	Raidak-I	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa/Raidak-I	26.4922	89.7006
127	Chhatnag Allahabad	Ganga	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3931	81.9164
128	Chhidgaon	Ganjal	Madhya Pradesh	Harda	Narmada	Narmada/Ganjal	22.4058	77.3081

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
129	Chindnar	Indravati	Chattisgarh	Dantewara	Godavari Basin	Godavari/Indravati	19.0794	81.3011
130	Chitrasani	Balaram	Gujarat	Banaskantha	West flowing rivers of Kutchh and Saurashtra including Luni	Banas/Balaram	24.2856	72.5003
131	Cholachagudda	Malaprabha	Karnataka	Bagalkot	krishna	Krishna/Malaprabha	15.8717	75.7228
132	Chopan	Sone	Uttar Pradesh	Sonbhadra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.5333	83.0500
133	Chotabekra	Barak	Manipur	Jiribam	Ganga/Brahmaputra/Meghna/Barak	Barak	24.6721	93.1039
134	Chouldhowaghat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	27.4475	94.2528
135	Chujachen (Rongli Chu)	Rongli-Chu	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/ Rongli-Chu	27.2072	88.7189
136	Chunchankatte	Cauvery	Karnataka	Mysuru	Cauvery	Cauvery	12.5067	76.3008
137	CORONATION	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.9025	88.4731
138	D.R.F	Puthimari	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.7750	91.6892
139	Dabri	Ramganga	Uttar Pradesh	Shahjahanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	27.4958	79.6972
140	Dameracherla	Musi	Telangana	Nalgonda	krishna	Krishna/Musi	16.7392	79.6697
141	Daund	Bhima	Maharashtra	Pune	Krishna	Krishna/Bhima	18.4739	74.5764
142	Dawki	Umngot	Meghalaya	Jaintia Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Umngot	25.1897	92.0228
143	Delhi Rly Bridge	Yamuna	Delhi	North Delhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.6625	77.2467
144	Deongaon Bridge	Bhima	Karnataka	Bijapur	krishna	Krishna/Bhima	17.1703	76.3283
145	Deoprayag(G)	Ganga	Uttarakhand	Pauri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1414	78.5969
146	DEOSUGUR	Krishna	Karnataka	Raichur	krishna	Krishna	16.3822	77.3572
147	Derol Bridge	Sabarmati	Gujarat	Sabarkantha	Sabarmati	Sabarmati	23.5764	72.8069
148	Desangpani	Desang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	27.0472	94.9125
149	DHALEGAON	Godavari	Maharashtra	Parbhani	Godavari Basin	Godavari	19.2203	76.3633
150	Dhamkund	Chenab	Jammu & Kashmir	Ramban	Indus Basin	Chenab	33.2431	75.1458
151	Dhaneta	Bahgul	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ramganga / Bahgul	28.4231	79.8108
152	Dharamtul	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1661	92.3556
153	Dhareri	Chambal	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	23.1333	75.5147
154	Dheng Bridge	Bagmati	Bihar	Sitamarhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Bagmati	26.7234	85.3260

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
155	Dholabazar	Lohit	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Lohit	27.7900	95.6006
156	Dholai	Rukni	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak/Rukni	24.5861	92.8422
157	Dholpur	Chambal	Rajasthan	Dholpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal	26.6586	77.9033
158	Dhubri	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.0167	89.9903
159	DIANA	Diana	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Diana	26.8614	89.0011
160	Dibrugarh	Brahmaputra	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	27.4989	94.8558
161	Dickchu	Teesta	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta	27.4214	88.5142
162	Dillighat	Desang	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Desang	27.1400	95.3700
163	Dimapara	Bugi	Meghalaya	South Garo Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Bugi	25.2308	90.2500
164	Dindori	Narmada	Madhya Pradesh	Dindori	Narmada	Narmada	22.9478	81.0761
165	Diprang gaon	Kolong	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kolong	26.1758	92.0953
166	Dobhi	Phalgu	Bihar	Gaya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Phalgu	24.5236	84.9375
167	Domohani	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.5628	88.7583
168	Domuhani	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.8356	86.1611
169	Duddhi	Kanhar	Uttar Pradesh	Sonbhadra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone/Kanhar	24.2272	83.2706
170	Dudhnoi	Dhudnoi	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Dhudnoi	25.9806	90.7906
171	Durvesh	Wagh	Maharashtra	Thane	West flowing rivers from Tapi to Tadri	Damanganga/Wagh	19.7131	72.9300
172	Ekmighat	Adhwara	Bihar	Dharbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Bagmati/Adhwara	26.1194	85.8764
173	Elginbridge	Ghaghra	Uttar Pradesh	Barabanki	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	27.0956	81.4839
174	Elunuthimangalam	Noyyal	Tamil Nadu	Erode	Cauvery	Cauvery/Noyyal	11.0317	77.8875
175	Englishbazar	Mahananda	West Bengal	Malda	Ganga/Brahmaputra/Meghna/Barak	Padma/Mahananda	25.0113	88.1519
176	Erinjipuzha	Payaswani	Kerala	Kasargod	West Flowing rivers from Tadri to Kanyakumari	Payaswani	12.4792	75.1472
177	Etawah	Yamuna	Uttar Pradesh	Etawah	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.7500	78.9833
178	Faizabad U/S	Ghaghra	Uttar Pradesh	Faizabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.7786	82.0817
179	Fakirabazar	Longai	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara/Longai	24.8517	92.3500
180	Farakka/(HR)	Feeder Canal	West bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Feeder Canal	24.7953	87.9317
181	Fatehgarh	Ganga	Uttar Pradesh	Farukhabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.4042	79.6250

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
182	Fulertal	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.7886	93.0189
183	G.R.Bridge	Godavari	Maharashtra	Parbhani	Godavari Basin	Godavari	19.0217	76.7292
184	Gadarwara	Sakkar	Madhya Pradesh	Narsinghpur	Narmada	Narmada/Sakkar	22.9228	78.7908
185	Gadat	Ambika	Gujarat	Palghar	West flowing rivers from Tapi to Tadri	Ambika	20.8581	72.9850
186	Gadwa road	North Koel	Jharkhand	Palamu	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone/ North Koel	24.2136	83.8783
187	Gaisabad	Bearma	Madhya Pradesh	Damoh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken/Bearma	24.2425	79.8444
188	Galeta	Hindon	Uttar Pradesh	Meerut	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Hindon	29.0756	77.4625
189	Gandhavayal	Gandhayar	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Gandhayar	11.3742	76.9922
190	Gandhighat	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6217	85.1711
191	GANDLAPET	Peddavagu	Telangana	Nizamabad	Godavari Basin	Godavari/Peddavagu	18.8289	78.4367
192	Ganguwala	Bata	Himachal Pradesh	Sirmaur	Ganga/Brahmaputra/Meghna/Barak	Yamuna/Bata	30.4369	77.5786
193	Ganod	Bhadar	Gujarat	Rajkot	West flowing rivers of Kutchh and Saurashtra including Luni	Bhadar	21.6647	70.1811
194	Garampani / Tenganighat	Dhansiri(S)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.3344	93.8883
195	Garhakota	Sonar	Madhya Pradesh	Sagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken/Sonar	23.8289	79.1667
196	Garhmukteshwar	Ganga	Uttar Pradesh	Ghaziabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	28.7667	78.1417
197	Garrauli	Dhasan	Madhya Pradesh	Chhatarpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ cBetwa/Dhasan	24.6411	79.2833
198	Garudeshwar	Narmada	Gujarat	Narmada	Narmada	Narmada	21.8850	73.6544
199	Gatora-I	Arpa	Chhattisgarh	Bilaspur	Mahanadi	Arpa	22.0903	82.1501
200	Gatora-II	Arpa	Odisha	Bilaspur	Mahanadi	Arpa	22.0714	82.1886
201	Gaya	Phalgu	Bihar	Gaya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Phalgu	24.7717	85.0100
202	GAZOLDOBA	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.7525	88.5872
203	Gelbil	Doyang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Dayang	26.2411	93.9836
204	Gharmura	Dhaleswari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Dhaleswari	24.3667	92.5489
205	Ghat	Sarju	Uttarakhand	Pithoragarh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Sharda/Sarju	29.5000	80.1278
206	Ghatora	Arpa	Chhattisgarh	Bilaspur	Mahanadi	Mahanadi/Seonath	22.0567	82.2194
207	Ghatsila	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.5806	86.4683
208	Ghatsila Road Bridge	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.5945	86.4478



S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
209	Ghazipur	Ganga	Uttar Pradesh	Ghazipur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5697	83.5783
210	GHISH	Ghish	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Ghish	26.8747	88.6094
211	Ghugumari	Torsa	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.2878	89.4608
212	Goalpara	Brahmaputra	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2042	90.5814
213	Gokak Falls	Ghatprabha	Karnataka	Belgam	krishna	Krishna/Ghatprabha	16.1722	74.8014
214	Gokul Barrage D/S of Mathura	Yamuna	Uttar Pradesh	Mathura	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.4425	77.7136
215	Golaghat	Dhansiri(South)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.5033	93.9519
216	GOLOKGANJ	Sankosh	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Sankosh	26.1072	89.8225
217	Gomlai	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	21.8378	84.9425
218	Gomti Nagar	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.8172	80.0140
219	Gopalkheda	Purna	Maharashtra	Akola	Tapi	Tapi/Purna	20.8742	76.9897
220	Gopiballabhpur	Subarna- rekha	West Bengal	Paschim Midnapur/ West Bengal	Subarnarekha	Subarnarekha/ Subarnarekha	22.2197	86.9047
221	Gopurajapuram	Puravidai- yanar	Tamil Nadu	Nagapattinam	Cauvery	Cauvery/ Puravidaiyanar	10.8514	79.8000
222	Gorakhpur D/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7055	83.3497
223	Gorakhpur U/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7525	83.3242
224	Govindapur	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	21.5478	86.9181
225	Gudari	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.3833	83.7922
226	Guma Phoolbari (Tarabari)	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2572	91.1164
227	Gummanur	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	12.5550	78.1386
228	Gumrabazar	Gumra	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Meghna/Surma/ Gumra	25.0119	92.5100
229	Gunderdehi	Tandula	Chhattisgarh	Balod/ Chhattisgarh	Mahanadi	Tandula/ Mahanadi	20.9553	81.2778
230	Gunupur	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.0833	83.8056
231	Guwahati D.C. Court	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1947	91.7431
232	Haladi	Halady	Karnataka	0	West Flowing rivers from Tadri to Kanyakumari	Halady	13.5817	74.8578
233	Halia	Halia	Telangana	Nalgonda	krishna	Krishna/Halia	16.7900	79.3388
234	Hamirpur	Yamuna	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.7667	80.1500

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
235	Handia	Narmada	Madhya Pradesh	Harda	Narmada	Narmada	22.4917	76.9936
236	Hanskhali	Churni	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi/Churni	23.3578	88.6086
237	Harangajao	Jatinga	Assam	Dima Hasao	Ganga/Brahmaputra/Meghna/Barak	Jatinga	25.1161	92.8531
238	Haridwar	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9450	78.1653
239	HARIDWAR D/S	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9628	78.1731
240	HARIDWAR U/S	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9675	78.1764
241	Hariharapura	Tunga	Karnataka	Chikmagalur	Krishna	Tunga	13.5222	75.3033
242	Haripur	Tons	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Tons	30.5372	77.8258
243	Harlahalli	Tungabhadra	Karnataka	Haveri	krishna	Krishna/Tungabhadra	14.8306	75.7228
244	HASIMARA	Torsa	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.7292	89.3236
245	Hathi Khana	Ganga	Uttar Pradesh	Fatehgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.3479	79.6436
246	Hathidah	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3686	85.9886
247	Hayaghat	Bagmati	Bihar	Darbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/Bagmati	26.0375	85.8864
248	Hivra	Wardha	Maharashtra	Wardha	Godavari Basin	Godavari/Pranhita/Wardha	20.5472	78.3247
249	Holehonnur	Tunga	Karnataka	Shimoga	krishna	Krishna/Tungabhadra/ Tunga	13.9761	75.6853
250	Honnali	Tungabhadra	Karnataka	Davangere	krishna	Krishna/Tungabhadra	14.2372	75.6625
251	Hoshangabad	Narmada	Madhya Pradesh	Hoshangabad	Narmada	Narmada	22.7561	77.7328
252	Huvinhedigi	Krishna	Karnataka	Raichur	krishna	Krishna	16.4911	76.9231
253	Indupur	Brahmani	Odisha	Kendrapara	Brahmani-Baitarni	Brahmani	20.6397	86.4039
254	Jagdapur	Indravati	Chattisgarh	Bastar	Godavari Basin	Godavari/Indravati	19.1081	82.0228
255	Jagibhakatgaon	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1608	92.2169
256	Jai Nagar	Kamla-Balan	Bihar	Madhubani	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Kamla-Balan	26.5867	86.1456
257	JAIGAON	Torsa	West Bengal	Alipurduar	Ganga/Brahmaputra/Meghna/Barak	Teesta/Torsa	26.8455	89.3677
258	Jajmau	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4094	80.4438
259	Jaldhaka NH-31	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.5697	88.9383
260	Jammu Tawi	Tawi	Jammu & Kashmir	Jammu	Indus Basin	Chenab/Tawi	32.7629	74.8844
261	Jamshedpur	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.8156	86.2161

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262	Jamsholaghat	Subarnarekha	Odisha	Mayurbhanj	Subarnarekha	Subarnarekha	22.2197	86.7167
263	Janepally	Poolang vagu	Telangana	Nizamabad	Godavari Basin	Poolang vagu	18.8111	78.0653
264	Japla	Sone	Jharkhand	Palamu	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.5669	83.9758
265	Jaraikela	Koel	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani/Koel	22.3217	85.1047
266	Jaunpur	Gomti	Uttar Pradesh	Jaunpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	25.7500	82.6644
267	Jenapur	Kagna	Odisha	Jajpur	Brahmani-Baitarni	Krishna/Bhima/ Kagna	20.8897	86.0142
268	Jhanjharpur	Kamla-Balan	Bihar	Madhubani	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/Kamla-Balan	26.2266	86.2561
269	Jhansi- Mirjapur Highway Road Bridge D/S of Sahijna	Betwa	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Betwa	25.9442	80.1553
270	Jiabharali NT Road X-ing	Jiabharali	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Jiabharali	26.8097	92.8764
271	Jondhra	Seonath	Chattisgarh	Bilaspur	Mahanadi	Mahanadi/Seonath	21.7158	82.3472
272	K M Vadi	Lakshman-thirtha	Karnataka	Mysuru	Cauvery	Cauvery/Lakshmanthirtha	12.3461	76.2878
273	Kabirganj	Sarda	Uttar Pradesh	Pilibhit	Ganga/Brahmaputra/Meghna/Barak	Sarda	28.5000	80.3792
274	Kachlabridge	Ganga	Uttar Pradesh	Badaun	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.9319	78.8606
275	Kailash Mandir Benpur U/S of Agra	Yamuna	Uttar Pradesh	Agra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2361	77.9306
276	Kakarghatti	KamlaBalan	Bihar	Bihar	Ganga/Brahmaputra/Meghna/Barak	Kamla Balan	26.1886	85.9508
277	KAKRIPARA	Nadi(Jinjiram)	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Nadi (jinjiram)	25.5119	89.8714
278	Kalampur	Kaliyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha/ Kaliyar	9.9906	76.6322
279	Kalanaur	Yamuna	Uttar Pradesh	Saharanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.0694	77.3644
280	KALIAJARI (Chotagorjan)	Pakaria	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra / Pakaria	26.2762	92.1891
281	Kalikhola	Kalikhola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit/Kalikhola	27.1903	88.0739
282	Kallooppara	Manimala	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa/Manimala	9.4036	76.6503
283	Kalma	Mahanadi	Chattisgarh	Jagirchampa/ Chhattisgarh	Mahanadi	Mahanadi/ Mahanadi	21.6403	83.3594
284	Kalna (EBB)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
285	Kalna (Flow)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725
286	Kalpadai	Gomukhi Nadi(N)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(N)	11.7889	78.7866
287	KALPI	Yamuna	Uttar Pradesh	Jalaun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.2000	79.7000
288	Kamalanga	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.8872	85.2787
289	KAMALAPURAM	Papagani	Andhra Pradesh	Kadapa	Pennar	Pennar/Papagani	14.5806	78.6778
290	Kampur	Kopili	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1531	92.6564
291	Kanker	Dhudh	Chattisgarh	Kanker	Mahanadi	Dhudh	20.2951	81.5156
292	Kannauj	Kali	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Kali	27.0127	79.9841
293	Kanpur	Ganga	Uttar Pradesh	Kanpur Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4694	80.3764
294	Kantamal	Tel	Odisha	Boudh	Mahanadi	Mahanadi/Tel	20.6500	83.7222
295	Kanti	BurhiGandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.2735	85.3004
296	Karad	Krishna	Maharashtra	Satara	Krishna	Krishna	17.2944	74.1903
297	Karanparyag Con-fluence D/S	Alkananda	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2647	79.2144
298	Karanparyag Con-fluence U/S	Alkananda	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2639	79.2175
299	Karathodu	Kadalundi	Kerala	Malappuram	West Flowing rivers from Tadri to Kanyakumari	Kadalundi	11.0569	76.0394
300	Karimganj	Kushiyara	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara	24.8761	92.3619
301	Karnal	Yamuna	Haryana	Karnal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	29.6956	77.1428
302	Karnparayag	Pinder	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Pinder	30.2550	79.2208
303	Kasganj	Kali	Uttar Pradesh	Etah	Ganga/Brahmaputra/Meghna/Barak	Kali	27.7879	78.6253
304	Kashinagar	Vamsadhara	Odisha	Gajapati	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	18.8483	83.8731
305	Katri Umraoli	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.1506	79.8839
306	Katwa	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.6436	88.1478
307	Kazipura	Gomti	Uttar Pradesh	Moradabad	Ganga/Brahmaputra/Meghna/Barak	Gomti	28.9871	78.7417
308	Keesara	Munneru	Andhra Pradesh	Krishna	krishna	Krishna/Munneru	16.7156	80.3164
309	Kellodu	Vedavathi	Karnataka	Chitradurga	krishna	Krishna Tungabhadra/ Vedavathi	13.7542	76.3197

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
310	Kelo	Kelo	Odisha	Raigarh	Mahanadi	Kelo	21.8827	83.4034
311	Keolari	Wainganga	Madhya Pradesh	Seoni	Godavari Basin	Godavari/Pranhita/Wainganga	22.3819	79.9000
312	Keonjhar	Aradi	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni/Aradi	21.6278	85.6314
313	Kesinga	Tel	Odisha	Kalahandi	Mahanadi	Mahanadi/Tel	20.2039	83.2231
314	KHANITAR	Teesta	Sikkim	East Sikkim (Gangtok)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	27.1778	88.5133
315	Khanpur	Mahi	Gujarat	Anand	Mahi	Mahi	22.5347	73.1408
316	Kharkhana	Myntdu	Meghalaya	West Jaintia Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Myntdu	25.1583	92.2144
317	khatoli	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.6833	76.4833
318	Kheronighat	Kopili	Assam	Karbi Anglong	Ganga/Brahmaputra/Meghna/Barak	Kopili	25.8483	92.8867
319	KHUDRAKHOWA	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.3067	90.7522
320	Kidangoor	Meenachil	Kerala	Kottayam	West Flowing rivers from Tadri to Kanyakumari	Meenachil	9.6756	76.6056
321	KIRTINAGAR D/S	Alkananda	Uttarakhand	Tehri	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2289	78.7297
322	KIRTINAGAR U/S	Alkananda	Uttarakhand	Tehri	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2297	78.7669
323	Kodumudi	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.0811	77.8903
324	Koelwar	Sone	Bihar	Bhojpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	25.5714	84.7947
325	Kogaon	Kundi	Madhya Pradesh	Khargone	Narmada	Narmada/Kundi	22.1014	75.6842
326	Kokiwada	Pench	Madhya Pradesh	Chindawara	Godavari Basin	Godavari/Pranhita/Wainganga/Pench	21.8977	79.2344
327	Kokkedoddy	Arkavathy	Karnataka	Ramanagara	Cauvery	Arkavathy	12.2961	77.4403
328	Kokrajar	Gaurang	Assam	Kokrajar	Ganga/Brahmaputra/Meghna/Barak	Gaurang	26.3964	90.2544
329	Kollegal	Cauvery	Karnataka	Chamarajanagar	Cauvery	Cauvery	12.1892	76.1000
330	Konta	Sabari	Chattisgarh	Dantewara	Godavari Basin	Godavari/Sabari	17.7989	81.3928
331	KOPERGAON	Godavari	Maharashtra	Ahmednagar	Godavari Basin	Godavari	19.8783	74.4819
332	Kora	Rind	Uttar Pradesh	Fatehpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Rind	26.1328	80.4542
333	Korba	Hasdeo	Chattisgarh	Korba	Mahanadi	Mahanadi/Hasdeo	22.3583	82.6875
334	Korba 1	Hasdeo	Chattisgarh	Korba	Mahanadi	Hasdeo	22.3416	82.6886
335	Kota-By Pass Hanging Road Bridge u/s ok Kota City	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.1403	75.7953

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
336	Koteshwar	Bhagirath	Uttarakhand	Tehri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirath	30.3308	78.4883
337	Kotni	Seonath	Chattisgarh	Durg	Mahanadi	Mahanadi/Seonath	21.2361	81.2472
338	KRISHNAI	Krishnai	Assam	Golpara	Ganga/Brahmaputra/Meghna/Barak	Krishnai	26.0275	90.6692
339	Kudalaiyathur	Vellar	Tamil Nadu	Cuddalore	East Flowing rivers between Pennar and Kanyakumari	Vellar	11.4222	79.4722
340	Kudige	Cauvery	Karnataka	Kodagu	Cauvery	Cauvery	12.5025	75.9619
341	Kudlur	Palar	Karnataka	Chamarajanagara	Cauvery	Cauvery/Palar	11.8406	77.4628
342	Kuldah Bridge	Sone	Madhya Pradesh	Sidhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.4128	81.7039
343	Kulpatanga	Kharkai	Jharkhand	Purba Singhbhum	Subarnarekha	Kharkai	22.7658	86.1591
344	Kulsi	Kulsi	Assam	Kamrup (Rural)	Ganga/Brahmaputra/Meghna/Barak	Kulsi	25.9792	91.3858
345	Kumarapalayam	Varahanadhi	Pondicherry	Podicherry	East Flowing rivers between Pennar and Kanyakumari	Varahanadhi	11.9833	79.6806
346	Kumbidi	Bharathapuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha	10.8500	76.0200
347	Kumhari	Wainganga	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Wainganga	21.8842	80.1750
348	Kuniyil	Chaliyar	Kerala	Malappuram	West Flowing rivers from Tadri to Kanyakumari	Chaliyar	11.2394	76.0233
349	Kuppellur	Kumudavathi	Karnataka	Haveri	krishna	Krishna Tungabhadra/ Kumudavathi	14.5000	75.6339
350	KURUA (Polagouri)	Brahmaputra	Assam	Darang	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.4172	92.3117
351	Kurubhata	Mand	Chattisgarh	Raigarh	Mahanadi	Mahanadi/Mand	21.9864	83.2042
352	Kurundwad	Krishna	Maharashtra	Kolhapur	Krishna	Krishna	16.6836	74.6031
353	Kusei	Kusei	Odisha	Keonjhar	Brahmani-Baitarni	Kusei	21.1600	86.1243
354	KUSUMBIL	Tipkai	Assam	Kokrajhar	Ganga/Brahmaputra/Meghna/Barak	Tipkai	26.4164	90.1139
355	Kuthnuor	Yamuna	Uttarakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.8739	78.3028
356	Kuttyadi	Kuttyadi	Kerala	Kozhikode	West Flowing rivers from Tadri to Kanyakumari	Kuttyadi	11.6250	75.7844
357	Kuzhithurai	Thambraparni	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Thambraparni	8.3053	77.1856
358	Labha	Mahananda(Fulahar)	Bihar	Katihar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda(Fulahar)	24.8833	87.7000
359	Lachen	Lachen Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Lachen Chu	27.7094	88.5617
360	Lakhisarai	Kiul	Bihar	Lakhisarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kiul	25.1847	86.1022
361	Lakhoura	Kachhua	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Kachhua	25.7150	85.6300

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
362	Lakkavalli	Bhadra	Karnataka	Shimoga	Krishna	Bhadra	13.7061	75.6450
363	Lalganj	Gandak	Bihar	Vaishali	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	25.8453	85.1544
364	Lalpur	Sengar	Uttar Pradesh	Kanpur Dehat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sengar	26.2714	79.9500
365	LAVEN	Teesta	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Kanaka/Teesta	27.5375	88.4944
366	LINGDEM HOT SPRING	Talangchu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Talangchu	27.5333	88.4695
367	Lodhikheda	Jam	Madhya Pradesh	Chindawara	Godavari Basin	Godavari/Pranhita /Wardha/Jam	21.5792	78.8655
368	Lowara	Shetruni	Gujarat	Bhavnagar	West flowing rivers of Kutchh and Saurashtra including Luni	Shetruni	21.4439	71.5603
369	Lucknow	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	26.8611	80.9464
370	Lupungdih	Subarnarekha	Odisha	Saraikela kharsawan	Subarnarekha	Subarnarekha	22.3497	87.4967
371	M.B.P.L.	Hasdeo	Chattisgarh	Bilaspur	Mahanadi	Hasdeo	22.0131	82.6480
372	M.H. Halli	Hemavati	Karnataka	Hassan	Cauvery	Cauvery/Hemavati	12.8189	76.1333
373	MACHAIGAON (krishna Bihari)	Dirai	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dirai	27.7542	94.7881
374	Madamon	Pamba	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pamba	9.3639	76.8378
375	Madhabarida	Badanadi	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya/Badanadi	19.8531	84.6264
376	Madhira	Wyra	Telangana	Khamman	krishna	Krishna/Munneru/Wyra	16.9181	80.3558
377	MADLA	Ken	Madhya Pradesh	Panna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Ken	24.7333	80.0067
378	Maghadharra	Wainganga	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Wainganga	22.2394	80.0939
379	Mahalgaon	Wainganga	Madhya Pradesh	Gondia	Godavari Basin	Godavari/Pranhita/Wainganga	21.5505	80.0266
380	Mahendipur	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.0101	79.9855
381	Mahidpur	Shipra	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Shipra	23.4806	75.6364
382	Mahuwa	Purna	Gujarat	Surat	West Flowing rivers from Tapi to Tadri	Purna	21.0158	73.1356
383	Maighat	Gomti	Uttar Pradesh	Jaunpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	25.6436	82.8467
384	Majhitar	Rangit	Sikkim	South Sikkim (Namchi)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Rangit	27.1078	88.3217
385	Malakkara	Pampa	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa	9.3325	76.6631
386	MALIBARI	Jaljoli	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Jaljoli	26.0760	91.1045
387	Malkhed	Kagna	Karnataka	Gulbarga	krishna	Krishna/Bhima/Kagna	17.2031	77.1572
388	Manakkad	Thodupuzha	Kerala	idukki	West Flowing rivers from Tadri to Kanyakumari	Thodupuzha	9.9088	76.6961

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
389	Manas	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.4645	90.7494
390	Manas N.H. Crossing	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.4645	90.7494
391	Mancherial	Godavari	Telangana	Adilabad	Godavari Basin	Godavari	18.8358	79.4447
392	Mandawara	Chambal	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	25.3853	76.1519
393	MANDERIAL	Chambal	Rajasthan	Karoli	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	26.2725	77.2753
394	Mandla	Narmada	Madhya Pradesh	Mndia	Narmada	Narmada	22.5992	80.3639
395	Mandleshwar	Narmada	Madhya Pradesh	Khargone	Narmada	Narmada	22.1683	75.6608
396	Manendragarh	Hasdeo	Chattisgarh	Koria	Mahanadi	Mahanadi/Hasdeo	23.2036	82.2172
397	Mangaon (Seasonal)	Kal	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Savitri/Kal	18.2317	73.2833
398	Manghi	Ghaghra	Bihar	Saran	Ganga/Brahmaputra/Meghna/Barak	Ghaghra	25.8258	84.5831
399	Mankara	Bharathapuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha	10.7611	76.4861
400	Manot	Narmada	Madhya Pradesh	Mandla	Narmada	Narmada	22.7358	80.5131
401	Mantralayam	Tungabhadra	Andhra Pradesh	Kurnool	krishna	Krishna/Tungabhadra	15.9483	77.4264
402	Manughat	Manu	Tripura	Dholai	Ganga/Brahmaputra/Meghna/Barak	Manu	23.9906	91.9934
403	Marella	Gundlakamma	Andhra Pradesh	Prakasam	East Flowing rivers between Mahanadi and Pennar	Gundlakamma	15.8828	79.9100
404	Margherita	Buridehing	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.2844	95.6628
405	Marol	Varada	Karnataka	Haveri	krishna	Krishna Tungabhadra/ Varada	14.9389	75.6181
406	Mataji	Mahi	Madhya Pradesh	Ratlam	Mahi	Mahi	23.3497	74.7178
407	Mathabhanga	Jaldhaka	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.3253	89.2356
408	Mathanguri	Beki	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Beki	26.7819	90.9572
409	Mathura	Yamuna	Uttar Pradesh		Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.4417	77.7150
410	Matigara	Balason	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda/Balason	26.7203	88.3769
411	Matijuri	Dhaleshwari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Barak/ Katakhal/ Dhaleshwari	24.6481	92.6114
412	Matunga	Kalanadi	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Kalanadi	26.7917	91.5356
413	Mawi	Yamuna	Uttar Pradesh	Muzaffar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	29.3847	77.1556



S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
414	Mayambadi	Gomukhi Nadi(S)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(S)	11.7376	78.79080
415	Meja Road	Tons	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Tons	25.2333	82.0378
416	Mekhliganj Right Bank	Teesta	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.3325	88.8636
417	Melli Bazar	Teesta River	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta River	27.0853	88.4525
418	Melliaputti	Vamsadhara	Andhra Pradesh	Srikakulam/ Andhra Pradesh	East Flowing Rivers between Mahanadi and Pennar	Mahendratanaya/ Vamsadhara	18.7833	84.1833
419	Menangudi	Noolar	Tamil Nadu	Thiruvavur	Cauvery	Cauvery/Noolar	10.9489	79.7039
420	Miao	Noa-dehing	Arunachal Pradesh	Changlang	Ganga/Brahmaputra/Meghna/Barak	Noa-dehing	27.4972	96.2187
421	Mirwadi	Mula Mutha	Maharashtra	Pune	Krishna	Mula Mutha	18.5339	74.1756
422	Mirzapur	Ganga	Uttar Pradesh	Mirzapur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.1561	82.5303
423	MOHANA	Yamuna	Haryana	Faridabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.2242	77.4569
424	MOHANA (Betwa)	Betwa	Uttar Pradesh	Jalaun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	25.7000	79.3694
425	Mohgaoan	Burhner	Madhya Pradesh	Mandla	Narmada	Narmada/Burhner	22.7658	80.6233
426	Moradabad	Ramganga	Uttar Pradesh	Moradabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	28.8267	78.7981
427	Motinaroli	Kim	Gujarat	Surat	Tapi	Kim (Indepent River)	21.4044	72.9625
428	Mungoli	Penganga	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha/Penganga	19.8650	79.1261
429	MUNUGODU	Edduvagu	Andhra Pradesh	Guntur	krishna	Edduvagu	16.5547	80.2064
430	Muradpur	Vashishti	Maharashtra	Ratnagiri	West flowing rivers from Tapi to Tadri	Vashishti	17.5402	73.5236
431	Murappanadu	Tambraparni	Tamil Nadu	Tuticorin	East Flowing rivers between Pennar and Kanyakumari	Tambraparni	8.7144	77.8350
432	Muri	Subarnarekha	Jharkhand	Ranchi	Subarnarekha	Subarnarekha	22.8167	86.2131
433	MURTI	Murti	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka/Murti	26.8406	88.8283
434	Mushal	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarani	21.3258	86.0401
435	Musiri	Cauvery	Tamil Nadu	Thiruchirapalli	Cauvery	Cauvery	10.9433	78.4350
436	Muthankera	Kabini	Kerala	Wynad	Cauvery	Cauvery/Kabini	11.8083	76.0839
437	Nagothane	Amba	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Amba	18.5192	73.1564
438	NAGRAKATA	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.8728	88.8953
439	Naharkatia	Buridehing	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.3003	95.3306

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
440	Naidupet	Swarnamukhi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Swarnamukhi	13.9472	79.8972
441	Naini D/S	Yamuna	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.4208	81.8397
442	Nallamaranpatty	Amaravathi	Tamil Nadu	Karur	Cauvery	Cauvery/ Amaravathi	10.8808	77.9847
443	Nallathur	Nandalar	Pondicherry	Karaikal	Cauvery	Cauvery/Nandalar	11.0022	79.7503
444	Namsai	Noa-dehing	Arunachal Pradesh	Namsai	Ganga/Brahmaputra/Meghna/Barak	Noa-dehing	27.6661	95.8303
445	Nanded	Godavari	Maharashtra	Nanded	Godavari Basin	Godavari	19.1417	77.3203
446	Nandgaon	Wunna	Maharashtra	Wardha	Godavari Basin	Godavari/Pranhita/Wardha/Wunna	20.5255	78.8088
447	NANDIPALLI	Sagaileru	Andhra Pradesh	Kadapa	Pennar	Pennar/Sagaileru	14.7211	79.0189
448	Nandira	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.8879	85.2622
449	Nanglamoraghat	Disang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	26.9850	94.7769
450	NASIK	Godavari	Maharashtra	Nasik	Godavari Basin	Godavari	20.0019	73.8033
451	Naugaon	Yamuna	Uttarakhand	Uttarakashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.7917	78.1353
452	Nawapara	Mahanadi	Odisha	Gariaband	Mahanadi	Mahanadi	20.9668	81.8712
453	Neamatighat	Brahmaputra	Assam	Jorhat	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.8700	94.2522
454	Neeleswaram	Periyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Periyar	10.1833	76.5000
455	Neemsar	Gomti	Uttar Pradesh	Sitapur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	27.3461	80.4778
456	Nellipally	Kallada	Kerala	Kollam	West Flowing rivers from Tadri to Kanyakumari	Kallada	9.0279	76.9250
457	Nellithurai	Bhavani	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Bhavani	11.2878	76.8911
458	NEORA	Naora	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta/ Naora	26.8786	88.7717
459	Nirmali	Kosi	Bihar	Supaul	Ganga/Brahmaputra/Meghna/Barak	Kosi	26.3036	86.5783
460	NIRMALI(NEW SITE)	Kosi	Bihar	Supaul	Ganga/Brahmaputra/Meghna/Barak	Kosi	26.3036	86.5783
461	Noida	Yamuna	Uttar Pradesh	Gautam Budh Nagar	Ganga/Brahmaputra/Meghna/Barak	Yamuna	28.6031	77.4242
462	NONA	Nona	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Nona	26.4439	91.5600
463	NOUKAGHAT	Mahananda	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda	26.6900	88.4069
464	Nowrangpur	Indravati	Odisha	Nowrangpur	Godavari Basin	Godavari/ Indravati	19.1975	82.5119
465	Numaligarh	Dhansiri(South)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.6311	93.7303

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
466	Odenthurai	Kallar	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Kallar	11.3218	76.8928
467	OKHLA BERRAGE	Yamuna	Delhi	South Delhi	Ganga/Brahmaputra/Meghna/Barak Basin	Ganga/Yamuna	28.5458	77.3111
468	Orai -Rath Marg Road Bridge Chikasi U/S of Sahijna city	Betwa	Uttar Pradesh	Jalaune	Ganga/Brahmaputra/Meghna/Barak	Betwa	25.8106	79.4608
469	P.G.Bridge	Penganga	Maharashtra	Yavatmal	Godavari Basin	Godavari/Pranhita/Wardha/Penganga	19.8175	78.5778
470	P.I.L.	Hasdeo	Chattisgarh	Janjgir-Champa	Mahanadi	Hasdeo	21.9631	82.6812
471	Pachauli	Sind	Madhya Pradesh	Shivpuri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind	25.1789	77.6869
472	PACHEGAON	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.5344	74.8339
473	Padampur	Ong	Odisha	Bargarh/ Odisha	Mahanadi	Ong/ Mahanadi	21.0156	83.1047
474	Paderdibadi	Mahi	Rajasthan	Dungarpur	Mahi	Mahi	23.7594	74.1333
475	Pagladiya	Pagladiya	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Pagladiya	26.4508	91.4603
476	Palakkadavu	Karuvannur	Kerala	Thrissur	West Flowing rivers from Tadri to Kanyakumari	Karuvannur	10.4251	76.2378
477	Paleru Bridge	Paleru	Andhra Pradesh	Krishna	krishna	Krishna/Paleru	16.9489	80.0478
478	PALI	Chambal	Rajasthan	Sawai-madhopur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/	25.8633	76.5767
479	Paliakalan	Sharda	Uttar Pradesh	Lakhimpur Khiri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Sharda	28.3833	80.5500
480	Palla	Yamuna	Delhi	North West Delhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.8294	77.2242
481	Panbari	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.5917	90.8290
482	Pancharatna	Brahmaputra	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2094	90.5533
483	Pancheshwar	Sharda	Uttarakhand	Champawat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Sharda	29.4258	80.2447
484	Pandu	Brahmaputra	Assam	Kamrup (Metro)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1753	91.6694
485	Panposh	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.2772	84.8519
486	Panposh I	Sankh	Odisha	Sundergarh	Brahmani-Baitarni	Sankh	22.2376	84.8033
487	Panposh II	Koel	Odisha	Sundergarh	Brahmani-Baitarni	Koel	22.2376	84.8033
488	PARAMKUDI	Vaigai	Tamil Nadu	Ramanathapuram	East Flowing rivers between Pennar and Kanyakumari	Vaigai	9.5531	78.5861
489	Pargaon	Bhima	Maharashtra	Pune	Krishna	Bhima	18.5583	74.3750
490	Parmampur	Bheden	Odisha	Jharsuguda	Mahanadi	Ib/Bheden	21.7806	84.0817
491	Parmarth Ghat	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4872	80.3445
492	Parsohan Ghat	Ratpi	Uttar Pradesh	Sidharthnagar	Ganga/Brahmaputra/Meghna/Barak	Ratpi (Burhi Rapti)	27.3953	82.5625

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
		(Burhi Rapti)						
493	Passighat	Siang	Arunachal Pradesh	East Siang	Ganga/Brahmaputra/Meghna/Barak	Siang	28.0731	95.3403
494	PATACHARKUCHI	Kalodiya	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Kalodiya	26.5053	91.2364
495	Patala	Wardha	Maharashtra	Yavatmal	Godavari Basin	Godavari/Pranhita/Wardha	20.1261	79.0008
496	Patan	Hiran	Madhya Pradesh	Jabalpur	Narmada	Narmada/Hiran	23.3111	79.6619
497	Patansaongi	Chandrabhaga	Maharashtra	Nagpur	Godavari Basin	Godavari/Pranhita/Wainganga/Kanhan/Chandrabhaga	21.3211	79.0247
498	Pathagudem	Indravati	Chattisgarh	Dantewara	Godavari Basin	Godavari/Indravati	18.8525	80.3494
499	Patharidih	Kharun	Chattisgarh	Raipur	Mahanadi	Mahanadi/Seonath/Kharun	21.3411	81.5939
500	Pattazhy	Kallada	Kerala	Kollam	West Flowing rivers from Tadri to Kanyakumari	Kallada	9.0728	76.7611
501	Pauni	Wainganga	Maharashtra	Bhandara	Godavari Basin	Godavari/Pranhita/Wainganga	20.7930	79.6483
502	Pen	Bhogeswari	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Bhogeswari	18.7367	73.1108
503	Penneswaram Madam	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing Rivers between Pennar and Kanyakumari	Ponnaiyar	12.3957	78.2453
504	Peralam	Vanjiyar	Tamil Nadu	Thiruvarur	Cauvery	Cauvery/Vanjiyar	10.9667	79.6639
505	Perumannu	Valapatnam	Kerala	Cannanore	West Flowing rivers from Tadri to Kanyakumari	Valapatnam	11.9814	75.5875
506	Perur	Godavari	Telangana	Khammam	Godavari Basin	Godavari	18.5872	80.3958
507	Phulgaon (Seasonal)	Bhima	Maharashtra	Pune	Krishna	Krishna/Bhima	18.6669	74.0022
508	PHURTSACHU HOT SPRING	Rangit	Sikkim	South Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit	27.2503	88.3036
509	Pingalwada	Dhadhar(Independent river)	Gujarat	Vadodara	Mahi	Dhadhari(Independent river)	22.1108	73.0786
510	poanta	Yamuna	Himachal Pradesh	Simaur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.4253	77.5919
511	Pohumara	Pohumara	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Pohumara	26.4817	91.1164
512	Polavaram	Godavari	Andhra Pradesh	West Godavari	Godavari Basin	Godavari	17.2519	81.6564
513	Porakudi	Arasalar	Tamil Nadu	Nagapattinam	Cauvery	Cauvery/Arasalar	10.9036	79.7072
514	PRAKASHAM BARRAGE	Krishna	Andhra Pradesh	Krishna	krishna	Krishna	16.5078	80.6053
515	Pratapgarh	Sai	Uttar Pradesh	Pratapgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti/Sai	25.9347	82.0019
516	Pratappur	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.3583	74.3842

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
517	Prem Nagar	Chenab	Jammu & Kashmir	Doda	Indus Basin	Chenab	33.1554	75.7035
518	Pudur	Kannadipuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Kannadipuzha	10.7800	76.5750
519	Pulamanthole	Pulanthodu	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Pulanthodu	10.8992	76.1972
520	Pullukku	Kumaradhara	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Kumaradhara	12.7112	75.4690
521	Purna	Purna	Maharashtra	Parbhani	Godavari Basin	Godavari/Purna	19.1758	77.0131
522	Purunagarh	Baliapita	Odisha	Deogarh/ Odisha	Brahmani-Baitarni	Brahmani /Baliapita Nala	21.5264	84.7125
523	Purushottampur	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya	19.5167	84.8833
524	Puthimari	Puthimari	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.3667	91.6533
525	Puthimari D.R.F	Puthimari	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.7750	91.6892
526	Raibareli	Sai	Uttar Pradesh	Raebareli	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti/Sai	26.1986	81.2511
527	RAJAHMUNDRY	Godavari	Andhra Pradesh	East Godavari	Godavari Basin	Godavari	16.9661	81.7831
528	Rajapur	Yamuna	Uttar Pradesh	Chitrakoot	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.3897	81.1542
529	Rajegaon	Bagh	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Bagh	21.6256	80.2539
530	Rajghat	Betwa	Uttar Pradesh	Lalitpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	26.8333	78.2014
531	Rajghat (S)	Subarnarekha	Odisha	Balasore	Subarnarekha	Subarnarekha	21.7678	87.1642
532	Rajim	Mahanadi	Chattisgarh	Raipur	Mahanadi	Mahanadi	20.9736	81.8783
533	Ramakona	Kanhan	Madhya Pradesh	Chindawara	Godavari Basin	Godavari/Pranhita/Kanhan	21.7189	78.8242
534	Ramamangalam	Muvattupuzha	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha	10.8992	76.1972
535	RAMDIA	Kolong	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Kolong	26.2556	91.4726
536	Rammunshi Bagh	Jhelum	Jammu & Kashmir	Sirnagar	Indus Basin	Jhelum	34.0631	74.8344
537	Rampur	Jonk	Chattisgarh	Raipur	Mahanadi	Mahanadi/Jonk	21.6517	82.5172
538	Ranganadi NT-Road Crossing	Ranganadi	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Ranganadi	27.2039	94.0563
539	Rangeli	som	Rajasthan	Dungarpur	Mahi	Mahi/som	23.8728	74.2236
540	RANGIT NAGAR	Rangit	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit	27.3000	88.3075
541	Rangma Range	Lachen Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Lachen Chu	27.6022	88.6187
542	RANGPO	Rangpochu	Sikkim	East Sikkim (Gangtok)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Rangpochu	27.1722	88.5297

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
543	RANIPOOL	Ranikhola	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Ranikhola	27.2789	88.5942
544	Rathey Chu	RatheyChu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Dikchu/RatheyChu	27.5556	88.8058
545	Reguali	Ghaghra	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/	26.7592	83.2906
546	Renukaji	Giri	Himachal Pradesh	Sirmaur	Ganga/Brahmaputra/Meghna/Barak	Yamuna/Giri	30.6044	77.4411
547	RIRIGAON (Kuraau bahi)	Dhansiri (S)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Brahmputra/ Dhansiri (S)	26.6733	93.6915
548	Rishikesh	Ganga	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1008	78.3039
549	RISHIKESH D/S	Ganga	Uttarakhand	Rishikesh	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.0758	78.2869
550	RISHIKESH U/S	Ganga	Uttarakhand	Rishikesh	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1264	78.3294
551	ROORKEE D/S	Saloni	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Saloni	29.8803	77.8975
552	ROORKEE U/S	Saloni	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Saloni	29.8864	77.8908
553	Rothak (Jorthang)	Rangit	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.1717	88.2994
554	RSP-I	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.2108	84.8733
555	RSP-II	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.3522	84.4592
556	RSP-III	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.3522	84.4592
557	Rudraprayag	Alaknanda	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Ganga/Alaknanda	30.2875	78.9844
558	Safapora	Jhelum	Jammu & Kashmir	Baramulla	Indus Basin	Jhelum	34.2956	74.6247
559	SAGBARI	Rangit	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.2547	88.3050
560	Saidpur	Ganga	Uttar Pradesh	Saidpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5339	83.2211
561	Saigaon	Manjira	Karnataka	Bidar	Godavari Basin	Godavari/Manjira	18.0758	77.0525
562	Sakhra	Wainganga	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga	20.6213	79.9372
563	Sakleshpur	Hemavati	Karnataka	Hassan	Cauvery	Cauvery/Hemavati	12.9436	75.7936
564	Sakmur	Wardha	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha	19.5605	79.6152
565	Sakra	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.0401	85.5574
566	Salebhata	Ong	Odisha	Balangir	Mahanadi	Mahanadi/Ong	20.9833	83.5394
567	Saloor	Manjira	Telangana	Nizamabad	Godavari Basin	Godavari/Manjira	18.7918	77.8339
568	Samdoli	Varna	Maharashtra	Sangli	Krishna	Krishna/Varna	16.8550	74.4967
569	Sandia	Narmada	Madhya Pradesh	Hoshangabad	Narmada	Narmada	22.9158	78.3475

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
570	Sangam	Jhelum	Jammu & Kashmir	Anantnag	Indus Basin	Jhelum	33.8331	75.0661
571	Sangam (Kinnerasani)	Kinnerasani	Telangana	Khammam	Godavari Basin	Godavari/ Kinnerasani	17.5908	80.8190
572	sangod	Parwan	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/ Kalisindh/Parwan	24.9603	76.3011
573	Sankalang	Teesta River	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta River	27.5122	88.5289
574	SANKOSH LRP	Sankosh	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Sankosh	26.4578	89.8581
575	Santheguli	Aghnanashini	Karnataka	Uthara Kannada	West Flowing rivers from Tadri to Kanyakumari	Aghnanashini	14.4344	74.5556
576	Saradapat	Sabari	Odisha	Malkangiri	Godavari Basin	Godavari/Sabari	18.6125	82.1428
577	Sarangkheda	Tapi	Maharashtra	Nandurbar	Tapi	Tapi	21.4283	74.5272
578	Sarangpal	Mahanadi	Chhattisgarh	Balod/ Chhattisgarh	Mahanadi	Mahanadi/ Mahanadi	20.3133	81.5322
579	Sarati	Nira	Maharashtra	Pune	Krishna	Krishna/Bhima/ Nira	17.9114	75.0075
580	Satna	Tons	Madhya Pradesh	Satna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Tons	24.5333	80.8883
581	SATPOKHALI	Koa	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Koa	26.0681	91.4592
582	SATPULI D/S	Nayar	Uttarakhand	Pauri	Ganga/Brahmaputra/Meghna/Barak	Nayar	29.9375	78.7022
583	SATPULI U/S	Nayar	Uttarakhand	Pauri	Ganga/Brahmaputra/Meghna/Barak	Nayar	29.9189	78.7072
584	Satrapur	Kanhan	Maharashtra	Nagpur	Godavari Basin	Godavari/Pranhita/Wainganga/Kanhan	21.2167	79.2331
585	Savandapur	Bhavani	Tamil Nadu	Erode	Cauvery	Cauvery/Bhavani	11.5217	77.5100
586	Seondha	Sind	Madhya Pradesh	Datia	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind	26.4175	78.9300
587	Seorinarayan	Mahanadi	Chhattisgarh	Janjgir-champa	Mahanadi	Mahanadi	21.7167	82.5967
588	Seppa	Kameng	Arunachal Pradesh	East Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.3573	93.0389
589	Sevanur	Chittar	Tamil Nadu	Erode	Cauvery	Cauvery/Chittar	11.5519	77.7319
590	SEVOKE	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	26.8817	88.4769
591	Shahjahanpur	Khannaut	Uttar Pradesh	Shahjahanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga / Deoha / Khannaut	27.8500	79.9086
592	Shahjina	Betwa	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	25.9500	80.1478
593	Shahzadpur	Ganga	Uttar Pradesh	Kaushambi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6667	81.4300
594	SHALADANG	Kaljani	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Kaljani	26.3011	89.5867
595	Shastri Bridge	Ganga	Uttar Pradesh	Prayagraj	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.4366	81.8892

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
596	Shella	Umiew	Meghalaya	East Khasi Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Surma/Umiew	25.1956	91.6353
597	Shimoga	Tunga	Karnataka	Shimoga	krishna	Tungabhadra/Tunga	13.9269	75.5850
598	SHOLMARI	Harianadi	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Harianadi	26.3139	91.3400
599	Sibbari	Dareng	Meghalaya	South Garo Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/ Dareng	25.1783	90.5078
600	Sikandarpur	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Burhi Gandak	26.1428	85.3761
601	SILGHAT	Brahmaputra	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6181	92.9414
602	Simga	Seonath	Chattisgarh	Raipur	Mahanadi	Mahanadi/Seonath	21.6317	81.6878
603	SIMULTALA	Pakaria	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Brahmpurta/Pakaria	26.2450	92.1261
604	Singasadanapalli	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing Rivers between Pennar and Kanyakumari	Ponnaiyar	12.8671	77.8408
605	Singavaram	Chitravathi	Andhra Pradesh	Anantapur	Pennar	Pennar/Chitravathi	14.5978	78.0133
606	SINGHIMARI	Jaldhaka	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Jaldhaka	26.1128	89.3500
607	SINGTAM	Ranikhola	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Ranikhola/Teesta	27.2314	88.4992
608	Sitapur	Sarayan	Uttar Pradesh	Sitapur	Ganga/Brahmaputra/Meghna/Barak	Gomti / Sarayan	27.5719	80.6856
609	Sivasagar	Dikhow	Assam	Sivasagar	Ganga/Brahmaputra/Meghna/Barak	Dikhow	26.9819	94.5792
610	Sonamura	Gumti	Tripura	West Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/ Gumti	23.4731	91.2667
611	Sonapur	Digaru	Assam	Kamrup (Rural)	Ganga/Brahmaputra/Meghna/Barak	Digaru	26.1204	91.9784
612	Sorada	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya	19.7556	84.4431
613	SOUTH SALMARA	Brahmaputra	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	25.8881	90.0158
614	Srikakulam	Nagavali	Andhra Pradesh	Srikakulam	East Flowing rivers between Mahanadi and Pennar	Nagavali	18.3133	83.8842
615	Srinagar	Alaknanda	Uttarakhand	Pauri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Alaknanda	30.2258	78.7756
616	Sripalpur	Punpun	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Punpun	25.5002	85.1096
617	Suklai	Suklai	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Suklai	26.6539	91.7153
618	SULDAGURI	Torsa	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.2536	89.6158
619	Sullurpet	Kalingi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Kalingi	13.7078	80.0100
620	Sultanpur	Gomti	Uttar Pradesh	Sultanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	26.2758	82.0678
621	Sundargarh	Ib	Odisha	Sundergarh	Mahanadi	Mahanadi/Ib	22.1153	84.0111
622	Swampatna	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.6167	85.9167



S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
623	Syohara	Ramganga	Uttar Pradesh	Bijnaur	Ganga/Brahmaputra/Meghna/Barak	Ramganga	29.3267	78.7597
624	T N pura	Kabini	Karnataka	Mysuru	Cauvery	Cauvery/Kabini	12.2300	76.8942
625	T. Bekuppe	Arkavathi	Karnataka	Ramanagara	Cauvery	Cauvery /Arkavathi	12.5167	77.4333
626	T.K. Halli	Shimsha	Karnataka	Mandya	Cauvery	Cauvery/Shimsha	12.4167	77.1925
627	T.Ramapuram	Hagari	Karnataka	Bellary	krishna	Krishna/Tungabhadra/Hagari	15.6611	76.9628
628	TADAPATRI	Pennar	Andhra Pradesh	Anantapur	Pennar	Pennar	14.9219	78.0164
629	tal	Chambal	Madhya Pradesh	Ratlam	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	23.7233	75.3469
630	Takli	Bhima	Maharashtra	Solapur	Krishna	Krishna/Bhima	17.4131	75.8478
631	Talcher	Brahmani	Odisha	Angual	Brahmani-Baitarni	Brahmani	20.9500	85.2500
632	Tanda D/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5449	82.6999
633	Tanda U/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5334	82.6262
634	Tandi	Bhaga	Himachal Pradesh	Lahul & Spiti	Indus Basin	Chenab/Bhaga	32.5500	76.9758
635	Taramchu	Taramchu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Taramchu	27.7047	88.5744
636	TARUMCHU HOT SPRING	Tarum Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Tarum Chu	27.7088	88.6083
637	TeestaBazar	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	27.0500	88.4269
638	Tekra	Pranhita	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Pranhita	18.9783	79.9469
639	TEOK (Jhanjhi)	Teok	Assam	Jorhat	Ganga/Brahmaputra/Meghna/Barak	Teok	26.8474	94.5017
640	Terwad	Panchganga	Maharashtra	Kolhapur	Krishna	Krishna/Panchganga	16.6753	74.5736
641	Tezpur	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6156	92.7967
642	Tezu	Lohit	Arunachal Pradesh	Lohit	Ganga/Brahmaputra/Meghna/Barak	Lohit	27.9108	96.1706
643	Thengudi	Thirumalair- ajanar	Tamil Nadu	Thiruvarur	Cauvery	Cauvery/Thirumalairajanar	10.9167	79.6392
644	Thengumarahada	Moyar	Tamil Nadu	Nilgiris	Cauvery	Cauvery/Bhavani/Moyar	11.5728	76.9192
645	Theni	Suruliar	Tamil Nadu	Theni	East Flowing rivers between Pennar and Kanyakumari	Vaigai/Suruliar	10.0011	77.4850
646	Therriaghat	Umsohryn- kiew	Meghalaya	East Khasi Hills	Ganga/Brahmaputra/Meghna/Barak	Umsohrynkiev	25.1800	91.7678
647	Thevur	Sarabenga	Tamil Nadu	Salem	Cauvery	Cauvery/Sarabenga	11.5272	77.7508
648	Thimmanahalli	Yagachi	Karnataka	Hassan	Cauvery	Cauvery/Yagachi	12.9825	77.0214
649	Thottathinkadavu	Iruvazhinjipu-	Kerala	Kozhikode	West Flowing rivers from Tadri to Kanyakumari	Iruvazhinjipuzha	11.3620	76.0019

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
		zha						
650	Thumpamon	Achankovil	Kerala	Pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa/Achankovil	9.2250	76.7147
651	Tihar Khera	Ramganga	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ramganga	28.4164	79.2883
652	Tikarapara	Mahanadi	Odisha	Angul	Mahanadi	Mahanadi	20.5894	84.7833
653	Tilga	Sankh	Jharkhand	Simdega	Brahmani-Baitarni	Brahmani/Sankh	22.6233	84.4175
654	Todarpur	sukheta	Uttar Pradesh	Hardoi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Deoha/ sukheta	27.5846	79.9952
655	TOYUM	Kalez Khola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit/ Kalez Khola	27.2708	88.2389
656	Triveni	Gandak	Bihar	West Champaran	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	27.4363	83.9077
657	Tufanganj	Raidak-i	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Torsa/Raidak-i	26.3089	89.6756
658	Tuini/pabar	Pabar	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Pabar	30.9603	77.8536
659	Tuini/tons	Tons	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Tons	30.9397	77.8467
660	Turtipar	Ghaghra	Uttar Pradesh	Ballia	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.1667	83.8636
661	Tuting	Siang	Arunachal Pradesh	Upper Siang	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Siang	28.9906	94.8950
662	Udaipur	Tirap	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra /Tirap	27.3369	95.8517
663	Udi	Chambal	Uttar Pradesh	Etawah	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal	26.6964	78.9378
664	Ujjain	Shipra	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Shipra	23.1683	75.7711
665	UMSIANG	Umsiang	Meghalaya	Ri- Bhoi	Ganga/Brahmaputra/Meghna/Barak	Umsing	26.0744	92.1653
666	Upper Rimbi	Rimbikhola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rimbikhola/ Rangit/ Teesta	27.3308	88.1519
667	Urachikottai	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.4778	77.7000
668	Uttarkashi	Bhagirath	Uttarakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirathl	30.7283	78.4461
669	V.S. Bridge	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.2552	83.0253
670	Valigonda	Musi	Telangana	Nalgonda	krishna	Musi	16.5708	79.4206
671	Vandiperiyar	Periyar	Kerala	Idukki	West Flowing rivers from Tadri to Kanyakumari	Periyar	9.5733	77.0908
672	Vapi	Damanganga	Gujarat	Valsad	west flowing rivers from tapi to tadri	Damanganga	20.3389	72.9117
673	Varanasi	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3236	83.0375
674	Varanavasi	Marudaiyar	Tamil Nadu	Ariyalur	Cauvery	Cauvery/Marudaiyar	11.0925	79.08497

S.No	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
675	Vautha	Sabarmati	Gujarat	Kheda	Sabarmati	Sabarmati	22.6503	72.5331
676	Vzhavachanur	Ponnaiyar	Tamil Nadu	Thiruvannam-alai	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	12.0658	78.9781
677	Vijayawada	Krishna	Andhra Pradesh	Krishna	krishna	Krishna	16.5011	80.6250
678	VILLUPURAM	Ponnaiyar	Tamil Nadu	Villupuram	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	11.8706	79.4594
679	Vrindavan-Yamuna Expressway Link Road Bridge U/S of Mathura	Yamuna	Uttar Pradesh	Mathura	Ganga/Brahmaputra/Meghna/Barak Basin	Ganga/Yamuna	27.5656	77.7083
680	Wadenapally	Krishna	Telangana	Nalgonda	krishna	Krishna	16.7942	80.0692
681	Wairagarh	Khobragarhi	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga/Khobragarhi	20.4219	80.0917
682	Warunji	Koyna	Maharashtra	Satara	Krishna	Krishna/Koyna	17.2722	74.1650
683	Yadgir	Bhima	Karnataka	Gulbarga	krishna	Krishna/Bhima	16.7375	77.1253
684	Yamuna Expressway Road Bridge- Etmadpur D/S of Agra city	Yamuna	Uttar Pradesh	Agra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.1794	78.1194
685	Yashwant nagar	Giri	Himachal Pradesh	Simaur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Giri	30.8867	77.2061
686	Yelli	Godavari	Maharashtra	Nanded	Godavari Basin	Godavari	19.0439	77.4556
687	Yennehole	Swarna	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Swarna	13.2942	74.9806
688	YUKSUM	Rothangchu	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rothangchu/Rangit/Teesta	27.3678	88.2069

**List of Water Quality Monitoring Stations where the water was found within acceptable limits (BIS 10500: 2012) metal concentration during the study period**

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	A.B.Road Crossing	Parwati	Madhya Pradesh	Guna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Parwati	24.3658	77.0989
2	Addoor	Gurupur	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Gurupur	12.9289	74.9539
3	Akhnoor	Chenab	Jammu & Kashmir	Jammu	Indus Basin	Chenab	32.9008	74.7589
4	Akkihebbal	Hemavati	Karnataka	Mandya	Cauvery	Hemavati	12.6028	76.4028
5	Aklera	Parwan	Rajasthan	Jhalawar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Kalisindh/Parwan	24.4297	76.6039
6	Alandurai	Noyyal	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Noyyal	10.9523	76.7853
7	Andhiyarkhore	Hamp	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi/Seonath/Hamp	21.8317	81.6058
8	Annavasal	Nattar	Pondicherry	Karaikal	Cauvery	Cauvery/Nattar	10.9725	79.7556
9	Arcot	Palar	Tamil Nadu	Ranipet	East Flowing rivers between Pennar and Kanyakumari	Palar	12.9139	79.3333
10	Arjunwad (Seasonal)	Krishna	Maharashtra	Kolhapur	Krishna	Krishna	16.7808	74.6333
11	Augustmuni D/S	Mandakani	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Mandakani	30.3922	79.0219
12	Augustmuni U/S	Mandakani	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Mandakani	30.4000	79.0417
13	AVARANK-UPPAM	Palar	Tamil Nadu	Vellore	East Flowing rivers between Pennar and Kanyakumari	Palar	12.6842	78.5394
14	Bahalpur	Champamati	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Champamati	26.3182	90.4695
15	Bairganja	Burhi Gandak	Bihar	East Champaran	Ganga/Brahmaputra/Meghna/Barak	Ganga/Burhi Gandak	26.6723	85.2494
16	Bakcha Chu	BakchaChu	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	BakchaChu/Dikchu/Teesta	27.4172	88.6306
17	Baleni U/S of Ghaziabad	Hindon	Uttar Pradesh	Baghpath	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Hindon	28.9586	77.4700
18	Bamnidhi	Hasdeo	Chattisgarh	Korba	Mahanadi	Mahanadi/Hasdeo	21.8986	82.7117
19	Banda	Ken	Uttar Pradesh	Banda	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken	25.4833	80.3133
20	Banjari	Sone	Bihar	Rohtas	Ganga/Brahmaputra/Meghna/Barak	Sone	24.6653	83.9978
21	Banka	Chandan	Bihar	Banka	Ganga/Brahmaputra/Meghna/Barak	Chandan	25.1117	86.5475

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
22	Baranwada	Banas	Rajasthan	Sawai-madhopur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Banas	26.0000	76.6667
23	Barod	Kalisindh	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Kalisindh	25.3833	76.3339
24	Baronda	Pairi	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi/Pairi	20.9125	81.8861
25	Basoda	Betwa	Madhya Pradesh	Vidisha	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	23.8872	77.9203
26	Belne Bridge	Gad	Maharashtra	Sindudurg	west flowing rivers from tapi to tadri	Gad	16.2167	73.6083
27	Belodi	Seonath	Chattisgarh	Durg	Mahanadi	Seonath	21.2331	81.2699
28	Bendrahalli	Suvarnavathi	Karnataka	Chamarajanagar	Cauvery	Suvarnavathi	12.1536	76.0800
29	BG Road / Ligribari (B.G Road)	Brahmaputra	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	27.0669	94.5317
30	Bhadana Village D/s of Kota City	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.2397	75.8800
31	Bhind	Kunwari	Madhya Pradesh	Bhind	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind/Kunwari	26.6078	78.8567
32	Biswanath Ghat ( In place of Tinsukia Mariga- on)	Brahmaputra	Assam	Biswanath	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6585	93.1723
33	Bop	Lachung Chu	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Laching Chu	27.6017	88.6625
34	Borkhola	Jatinga	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Jatinga	24.9243	92.7533
35	Chengalpet	Palar	Tamil Nadu	Kancheepuram	East Flowing rivers between Pennar and Kanyakumari	Palar	12.6500	79.9472
36	Chennur	Pennar	Andhra Pradesh	Kadapa	Pennar	Pennar	14.5722	78.8000
37	Cholachagudda	Malaprabha	Karnataka	Bagalkot	krishna	Krishna/Malaprabha	15.8717	75.7228
38	Chujachen (Rongli Chu)	Rongli-Chu	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/ Rongli-Chu	27.2072	88.7189
39	Daund	Bhima	Maharashtra	Pune	Krishna	Krishna/Bhima	18.4739	74.5764
40	Dhareri	Chambal	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	23.1333	75.5147
41	Dholpur	Chambal	Rajasthan	Dholpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal	26.6586	77.9033
42	Dickchu	Teesta	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta	27.4214	88.5142
43	Diprang gaon	Kolong	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kolong	26.1758	92.0953
44	Dobhi	Phalgu	Bihar	Gaya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Phalgu	24.5236	84.9375
45	G.R.Bridge	Godavari	Maharashtra	Parbhani	Godavari Basin	Godavari	19.0217	76.7292
46	Gadwa road	North Koel	Jharkhand	Palamu	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone/	24.2136	83.8783

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
						North Koel		
47	Gaisabad	Bearma	Madhya Pradesh	Damoh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken/Bearma	24.2425	79.8444
48	Gandhavayal	Gandhayar	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Gandhayar	11.3742	76.9922
49	Garampani / Tenganighat	Dhansiri(S)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.3344	93.8883
50	Garhakota	Sonar	Madhya Pradesh	Sagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Ken/Sonar	23.8289	79.1667
51	Garrauli	Dhasan	Madhya Pradesh	Chhatarpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ cBetwa/Dhasan	24.6411	79.2833
52	Gokak Falls	Ghatprabha	Karnataka	Belgam	krishna	Krishna/Ghatprabha	16.1722	74.8014
53	Gokul Barrage D/S of Mathura	Yamuna	Uttar Pradesh	Mathura	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.4425	77.7136
54	Gopurajapuram	Puravidaiyanar	Tamil Nadu	Nagapattinam	Cauvery	Cauvery/ Puravidaiyanar	10.8514	79.8000
55	Gunderdehi	Tandula	Chattisgarh	Balod/ Chhattisgarh	Mahanadi	Tandula/ Mahanadi	20.9553	81.2778
56	Hamirpur	Yamuna	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.7667	80.1500
57	HARIDWAR U/S	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9675	78.1764
58	Haripur	Tons	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Tons	30.5372	77.8258
59	Holehonnur	Tunga	Karnataka	Shimoga	krishna	Krishna/Tungabhadra/ Tunga	13.9761	75.6853
60	Huvinhedigi	Krishna	Karnataka	Raichur	krishna	Krishna	16.4911	76.9231
61	Jai Nagar	Kamla-Balan	Bihar	Madhubani	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Kamla-Balan	26.5867	86.1456
62	JAIGAON	Torsa	West Bengal	Alipurduar	Ganga/Brahmaputra/Meghna/Barak	Teesta/Torsa	26.8455	89.3677
63	Janepally	Poolang vagu	Telangana	Nizamabad	Godavari Basin	Poolang vagu	18.8111	78.0653
64	Jhansi- Mirjapur Highway Road Bridge D/S of Sahijna	Betwa	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Betwa	25.9442	80.1553
65	Jondhra	Seonath	Chattisgarh	Bilaspur	Mahanadi	Mahanadi/Seonath	21.7158	82.3472
66	KAKRIPARA	Nadi(Jinjiram)	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Nadi (jinjiram)	25.5119	89.8714
67	KALIAJARI (Chotagorjan)	Pakaria	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Pakaria	26.2762	92.1891
68	Kalikhola	Kalikhola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit/Kalikhola	27.1903	88.0739

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
69	Kalma	Mahanadi	Chhattisgarh	Jagirchampa/ Chhattisgarh	Mahanadi	Mahanadi/ Mahanadi	21.6403	83.3594
70	KAMALAPURAM	Papagani	Andhra Pradesh	Kadapa	Pennar	Pennar/Papagani	14.5806	78.6778
71	Kanker	Dhudh	Chhattisgarh	Kanker	Mahanadi	Dhudh	20.2951	81.5156
72	Karad	Krishna	Maharashtra	Satara	Krishna	Krishna	17.2944	74.1903
73	Karanparyag Confluence D/S	Alkananda	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2647	79.2144
74	Karanparyag Confluence U/S	Alkananda	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2639	79.2175
75	Karnparayag	Pinder	Uttarakhand	Chamoli	Ganga/Brahmaputra/Meghna/Barak	Pinder	30.2550	79.2208
76	Kelo	Kelo	Odisha	Raigarh	Mahanadi	Kelo	21.8827	83.4034
77	khatoli	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.6833	76.4833
78	KHUDRAKHOWA	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.3067	90.7522
79	KIRTINAGAR U/S	Alkananda	Uttarakhand	Tehri	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2297	78.7669
80	Kollegal	Cauvery	Karnataka	Chamarajanagar	Cauvery	Cauvery	12.1892	76.1000
81	Kora	Rind	Uttar Pradesh	Fatehpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Rind	26.1328	80.4542
82	Kota-By Pass Hanging Road Bridge u/s ok Kota City	Parwati	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Parwati	25.1403	75.7953
83	Kotni	Seonath	Chhattisgarh	Durg	Mahanadi	Mahanadi/Seonath	21.2361	81.2472
84	KRISHNAI	Krishnai	Assam	Golpara	Ganga/Brahmaputra/Meghna/Barak	Krishnai	26.0275	90.6692
85	Kudige	Cauvery	Karnataka	Kodagu	Cauvery	Cauvery	12.5025	75.9619
86	Kudlur	Palar	Karnataka	Chamarajanagara	Cauvery	Cauvery/Palar	11.8406	77.4628
87	Kuppellur	Kumudavathi	Karnataka	Haveri	krishna	Krishna Tungabhadra/ Kumudavathi	14.5000	75.6339
88	KURUA (Po- lagouri)	Brahmaputra	Assam	Darang	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.4172	92.3117
89	Kurundwad	Krishna	Maharashtra	Kolhapur	Krishna	Krishna	16.6836	74.6031
90	KUSUMBIL	Tipkai	Assam	Kokrajhar	Ganga/Brahmaputra/Meghna/Barak	Tipkai	26.4164	90.1139
91	Kuttyadi	Kuttyadi	Kerala	Kozhikode	West Flowing rivers from Tadri to Kanyakumari	Kuttyadi	11.6250	75.7844
92	Lachen	Lachen Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Lachen Chu	27.7094	88.5617

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
93	LINGDEM HOT SPRING	Talangchu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Talangchu	27.5333	88.4695
94	MADLA	Ken	Madhya Pradesh	Panna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Ken	24.7333	80.0067
95	Mahidpur	Shipra	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Shipra	23.4806	75.6364
96	Malkhed	Kagna	Karnataka	Gulbarga	krishna	Krishna/Bhima/Kagna	17.2031	77.1572
97	Manas N.H. Crossing	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.4645	90.7494
98	MANDERIAL	Chambal	Rajasthan	Karoli	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	26.2725	77.2753
99	Mandla	Narmada	Madhya Pradesh	Mndia	Narmada	Narmada	22.5992	80.3639
100	Mandleshwar	Narmada	Madhya Pradesh	Khargone	Narmada	Narmada	22.1683	75.6608
101	Mangaon (Seasonal)	Kal	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Savitri/Kal	18.2317	73.2833
102	Marella	Gundlakamma	Andhra Pradesh	Prakasam	East Flowing rivers between Mahanadi and Pennar	Gundlakamma	15.8828	79.9100
103	Melli Bazar	Teesta River	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta River	27.0853	88.4525
104	Menangudi	Noolar	Tamil Nadu	Thiruvavur	Cauvery	Cauvery/Noolar	10.9489	79.7039
105	Mirwadi	Mula Mutha	Maharashtra	Pune	Krishna	Mula Mutha	18.5339	74.1756
106	MOHANA (Betwa)	Betwa	Uttar Pradesh	Jalaun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	25.7000	79.3694
107	Muradpur	Vashishti	Maharashtra	Ratnagiri	West flowing rivers from Tapi to Tadri	Vashishti	17.5402	73.5236
108	Nagothane	Amba	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Amba	18.5192	73.1564
109	Naini D/S	Yamuna	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.4208	81.8397
110	Nallathur	Nandalar	Pondicherry	Karaikal	Cauvery	Cauvery/Nandalar	11.0022	79.7503
111	NANDIPALLI	Sagaileru	Andhra Pradesh	Kadapa	Pennar	Pennar/Sagaileru	14.7211	79.0189
112	Nawapara	Mahanadi	Odisha	Gariaband	Mahanadi	Mahanadi	20.9668	81.8712
113	Nellithurai	Bhavani	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Bhavani	11.2878	76.8911
114	NEORA	Naora	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta/ Naora	26.8786	88.7717
115	NIRMALI(NEW SITE)	Kosi	Bihar	Supaul	Ganga/Brahmaputra/Meghna/Barak	Kosi	26.3036	86.5783
116	Noida	Yamuna	Uttar Pradesh	Gautam Budh Nagar	Ganga/Brahmaputra/Meghna/Barak	Yamuna	28.6031	77.4242
117	OKHLA BERRAGE	Yamuna	Delhi	South Delhi	Ganga/Brahmaputra/Meghna/Barak Basin	Ganga/Yamuna	28.5458	77.3111



S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
118	Orai -Rath Marg RoadBridge Chikasi U/S of Sahijna city	Betwa	Uttar Pradesh	Jalaune	Ganga/Brahmaputra/Meghna/Barak	Betwa	25.8106	79.4608
119	Padampur	Ong	Odisha	Bargarh/ Odisha	Mahanadi	Ong/ Mahanadi	21.0156	83.1047
120	PALI	Chambal	Rajasthan	Sawai-madhopur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/	25.8633	76.5767
121	Pancheshwar	Sharda	Uttarakhand	Champawat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Sharda	29.4258	80.2447
122	PARAMKUDI	Vaigai	Tamil Nadu	Ramanathapuram	East Flowing rivers between Pennar and Kanyakumari	Vaigai	9.5531	78.5861
123	Pargaon	Bhima	Maharashtra	Pune	Krishna	Bhima	18.5583	74.3750
124	Parmanpur	Bheden	Odisha	Jharsuguda	Mahanadi	lb/Bheden	21.7806	84.0817
125	Pen	Bhogeswari	Maharashtra	Raigad	West flowing rivers from Tapi to Tadri	Bhogeswari	18.7367	73.1108
126	Penneswaram Madam	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing Rivers between Pennar and Kanyakumari	Ponnaiyar	12.3957	78.2453
127	Peralam	Vanjiyar	Tamil Nadu	Thiruvurur	Cauvery	Cauvery/Vanjiyar	10.9667	79.6639
128	Phulgaon (Seasonal)	Bhima	Maharashtra	Pune	Krishna	Krishna/Bhima	18.6669	74.0022
129	PHURTSACHU HOT SPRING	Rangit	Sikkim	South Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit	27.2503	88.3036
130	poanta	Yamuna	Himachal Pradesh	Simaur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.4253	77.5919
131	Puthimari D.R.F	Puthimari	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.7750	91.6892
132	Rajapur	Yamuna	Uttar Pradesh	Chitrakoot	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	25.3897	81.1542
133	Rajghat	Betwa	Uttar Pradesh	Lalitpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	26.8333	78.2014
134	Rampur	Jonk	Chattisgarh	Raipur	Mahanadi	Mahanadi/Jonk	21.6517	82.5172
135	RANGIT NAGAR	Rangit	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit	27.3000	88.3075
136	Rangma Range	Lachen Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Lachen Chu	27.6022	88.6187
137	RANIPOOL	Ranikhola	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/ Ranikhola	27.2789	88.5942
138	Rathey Chu	RatheyChu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Dikchu/RatheyChu	27.5556	88.8058
139	RISHIKESH U/S	Ganga	Uttrakhand	Rishikesh	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1264	78.3294
140	ROORKEE U/S	Saloni	Uttrakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Saloni	29.8864	77.8908
141	Sakleshpur	Hemavati	Karnataka	Hassan	Cauvery	Cauvery/Hemavati	12.9436	75.7936

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
142	Salebhata	Ong	Odisha	Balangir	Mahanadi	Mahanadi/Ong	20.9833	83.5394
143	Sangam	Jhelum	Jammu & Kashmir	Anantnag	Indus Basin	Jhelum	33.8331	75.0661
144	sangod	Parwan	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal/Kalisindh/Parwan	24.9603	76.3011
145	Sankalang	Teesta River	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta River	27.5122	88.5289
146	Sarangpal	Mahanadi	Chhattisgarh	Balod/ Chhattisgarh	Mahanadi	Mahanadi/ Mahanadi	20.3133	81.5322
147	Sarati	Nira	Maharashtra	Pune	Krishna	Krishna/Bhima/ Nira	17.9114	75.0075
148	SATPULI U/S	Nayar	Uttarakhand	Pauri	Ganga/Brahmaputra/Meghna/Barak	Nayar	29.9189	78.7072
149	Savandapur	Bhavani	Tamil Nadu	Erode	Cauvery	Cauvery/Bhavani	11.5217	77.5100
150	Seondha	Sind	Madhya Pradesh	Datia	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind	26.4175	78.9300
151	Seorinarayan	Mahanadi	Chhattisgarh	Janjgir-champa	Mahanadi	Mahanadi	21.7167	82.5967
152	Sevanur	Chittar	Tamil Nadu	Erode	Cauvery	Cauvery/Chittar	11.5519	77.7319
153	Sibbari	Dareng	Meghalaya	South Garo Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Dareng	25.1783	90.5078
154	Simga	Seonath	Chhattisgarh	Raipur	Mahanadi	Mahanadi/Seonath	21.6317	81.6878
155	SIMULTALA	Pakaria	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Pakaria	26.2450	92.1261
156	SINGHIMARI	Jaldhaka	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Jaldhaka	26.1128	89.3500
157	SINGTAM	Ranikhola	Sikkim	East Sikkim	Ganga/Brahmaputra/Meghna/Barak	Ranikhola/Teesta	27.2314	88.4992
158	SULDAGURI	Torsa	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.2536	89.6158
159	T N pura	Kabini	Karnataka	Mysuru	Cauvery	Cauvery/Kabini	12.2300	76.8942
160	T. Bekuppe	Arkavathi	Karnataka	Ramanagara	Cauvery	Cauvery /Arkavathi	12.5167	77.4333
161	T.K. Halli	Shimsha	Karnataka	Mandya	Cauvery	Cauvery/Shimsha	12.4167	77.1925
162	TADAPATRI	Pennar	Andhra Pradesh	Anantapur	Pennar	Pennar	14.9219	78.0164
163	Takli	Bhima	Maharashtra	Solapur	Krishna	Krishna/Bhima	17.4131	75.8478
164	Tandi	Bhaga	Himachal Pradesh	Lahul & Spiti	Indus Basin	Chenab/Bhaga	32.5500	76.9758
165	Taramchu	Taramchu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Taramchu	27.7047	88.5744
166	TARUMCHU HOT SPRING	Tarum Chu	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Tarum Chu	27.7088	88.6083

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
167	TEOK (Jhanjhi)	Teok	Assam	Jorhat	Ganga/Brahmaputra/Meghna/Barak	Teok	26.8474	94.5017
168	Terwad	Panchganga	Maharashtra	Kolhapur	Krishna	Krishna/Panchganga	16.6753	74.5736
169	Thengudi	Thirumalair- ajandar	Tamil Nadu	Thiruvavarur	Cauvery	Cauvery/Thirumalairajanar	10.9167	79.6392
170	Thevur	Sarabanga	Tamil Nadu	Salem	Cauvery	Cauvery/Sarabanga	11.5272	77.7508
171	TOYUM	Kalez Khola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Teesta/Rangit/ Kalez Khola	27.2708	88.2389
172	Tuting	Siang	Arunachal Pra- desh	Upper Siang	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Siang	28.9906	94.8950
173	Udi	Chambal	Uttar Pradesh	Etawah	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Chambal	26.6964	78.9378
174	UMSIANG	Umsiang	Meghalaya	Ri- Bhoi	Ganga/Brahmaputra/Meghna/Barak	Umsing	26.0744	92.1653
175	Valigonda	Musi	Telangana	Nalgonda	krishna	Musi	16.5708	79.4206
176	Vazhavachanur	Ponnaiyar	Tamil Nadu	Thiruvannam-alai	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	12.0658	78.9781
177	VILLUPURAM	Ponnaiyar	Tamil Nadu	Villupuram	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	11.8706	79.4594
178	Vrindavan- Yamuna Ex- presswayLink Road Bridge U/S of Mathura	Yamuna	Uttar Pradesh	Mathura	Ganga/Brahmaputra/Meghna/Barak Basin	Ganga/Yamuna	27.5656	77.7083
179	Warunji	Koyna	Maharashtra	Satara	Krishna	Krishna/Koyna	17.2722	74.1650
180	Yamuna Ex- pressway Road Bridge-Etmadpur D/S of Agra city	Yamuna	Uttar Pradesh	Agra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.1794	78.1194

**List of Water Quality Monitoring Stations where the water was found beyond acceptable limits (BIS 10500: 2012) metal concentration during the study period**

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	Abu Road	Banas	Rajasthan	Sirohi	West flowing rivers of Kutchh and Saurashtra including Luni	Banas	24.4939	72.7917
2	Adityapur	Kharkai	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha/Kharkai	22.7914	86.1736
3	Agra (J.B.)	Yamuna	Uttar Pradesh	Agra (J.B)	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2039	78.0350
4	Agra (P.G.)	Yamuna	Uttar Pradesh	Agra(P.G)	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2542	78.0231
5	Aie NH Crossing	Aie	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Aie	26.4975	90.6547
6	Akbarpur	Chhoti Sarju	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Chhoti Sarju	26.4303	82.5619
7	Akhuapada	Baitarni	Odisha	Bhadrak	Brahmani-Baitarni	Baitarni	20.9156	86.2747
8	Alladupalli	Kunderu	Andhra Pradesh	Kadapa	Pennar	Pennar/Kunderu	14.7172	78.6686
9	Altuma	Ramyala	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani/Ramyala	20.9297	85.5189
10	Amarpur	Gumti	Tripura	South Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/Gumti	23.5244	91.6514
11	Ambarampalayam	Aliyar	Tamil Nadu	Coimbatore	West Flowing Rivers from Tadri to Kanyakumari	Bharathapuzha/ Kannadipuzha/ Aliyar	10.6303	76.9461
12	Ambari	Kaljani	West Bengal	Coochbehar	Ganga/Brahmaputra/Meghna/Barak	Kaljani	26.4164	89.5417
13	Ambasamudram	Vaigai	Tamil Nadu	Theni	East Flowing rivers between Pennar and Kanyakumari	Vaigai	9.9256	77.5117
14	Ambgaon ( Bagdi)	Chulband	Maharashtra	Bhandara	Godavari Basin	Godavari/ Pranhita/ Wainganga/Chulband	20.7783	79.8513
15	Amraghat	Sonai	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Sonai	24.6678	92.8924
16	Anakapalli	Sarada	Andhra Pradesh	Visakhapatnam	East Flowing rivers between Mahanadi and Pennar	Sarada	17.6800	83.0200
17	Anandpur	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.2111	86.1206
18	Ankinghat	Ganga	Uttar Pradesh	Kanpur Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.9347	80.0361
19	Anna Purna Ghat	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.8189	92.7917
20	Aradei	Aradei	Odisha	Keonjhar	Brahmani-Baitarni	Aradei	20.8595	86.4023
21	Arangaly	Chalakydy	Kerala	Thrissur	West Flowing rivers from Tadri to Kanyakumari	Periyar/Chalakydy	10.2814	76.3153

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
22	Ashramam	Pazhayar	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Pazhayar	8.1593	77.4597
23	Ashti	Wainganga	Maharashtra	Gadchiroli	Godavari Basin	Godavari/ Pranhita/Wainganga	19.6867	79.7839
24	Auraiya	Yamuna	Uttar Pradesh	Auraiya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.4272	79.4181
25	Avershe	Seetha	Karnataka	Udupi	West Flowing rivers from Tadri to Kanyakumari	Seetha	13.5214	74.8800
26	Ayilam	Vamanapuram	Kerala	Thiruvanthapuram	West Flowing rivers from Tadri to Kanyakumari	Vamanapuram	8.7150	76.8500
27	Ayodhya	Ghaghra	Uttar Pradesh	Faizabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.8136	82.2078
28	Azmabad	Ganga	Bihar	Bhagalpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3275	87.2597
29	Bachhwara	Gaya	Bihar	Begusarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gaya	25.5747	85.8887
30	Badar Pur Ghat	Barak	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Barak	24.8733	92.5167
31	Badatighat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	26.9347	93.9622
32	Badlapur	Ulhas	Maharashtra	Thane	West flowing rivers from Tapi to Tadri	Ulhas	19.1622	73.2544
33	Baghpat	Yamuna	Uttar Pradesh	Baghpat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.9397	77.2064
34	Bakhari (in place of seoni chapara)	Wainganga	Madhya Pradesh	Wainganga	Godavari	Godavari/ Pranhita/Wainganga	22.3244	79.4678
35	BALADOBA	Ganghadhar	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Ganghadhar	26.0189	89.8294
36	Balighat	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	24.8717	85.8473
37	Balrampur	Rapti	Uttar Pradesh	Balrampur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	27.4500	82.2125
38	Baltara	Kosi	Bihar	Khagaria	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi	25.5415	86.7225
39	Baluaghat	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.4206	83.1836
40	Bamni	Wardha	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha	19.8139	79.3794
41	Bamni (Banjar)	Banjar	Madhya Pradesh	Mandla	Narmada	Narmada/Banjar	22.4842	80.3781
42	Bangapani(Munsyari)	Gauri Ganga	Uttarakhand	Pithoragarh	Ganga/Brahmaputra/Meghna/Barak	Mahalai/Gauri Ganga	29.9592	80.3042
43	BANGLABASTI	Koa	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Koa	26.1991	92.6726
44	Banpur	Mathabhanga	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Padma/Mathabhanga	24.1084	87.798892
45	Bansi	Rapti	Uttar Pradesh	Siddarthnagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	27.1833	82.9325
46	Bantwal	Nethravathi	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Nethravathi	12.8808	75.0411
47	Bareilly	Ramganga	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	28.2992	79.3667

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
48	Baridhi	Subarna- rekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.7994	86.2489
49	Baripada	Burhabalang	Odisha	Mayurbhanj	Subarnarekha	Burhabalang	21.9311	86.7186
50	Barmanghat	Narmada	Madhya Pradesh	Narsinghpur	Narmada	Narmada	23.0308	79.0156
51	Barobisha	Raidak-II	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra / Sankosh / Raidak-II	26.4744	89.7853
52	Basantpur	Mahanadi	Chattisgarh	Janjgir-champa	Mahanadi	Mahanadi	21.7267	82.7881
53	Basti	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7839	82.7131
54	Basti D/S	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7653	82.7324
55	Basti U/S	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7974	82.7078
56	Bawapuram	Tungabhadra	Andhra Pradesh	Kurnool	krishna	Krishna/ Tungabhadra	15.8833	77.9572
57	Beki Road bridge	Beki	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Beki	26.4941	90.9162
58	Belkheri	Sher	Madhya Pradesh	Narsinghpur	Narmada	Narmada/Sher	22.9278	79.3397
59	Berhampore	Bhagirathi	West Bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	24.0911	88.2431
60	Bhadrachalam	Godavari	Telangana	Khammam	Godavari Basin	Godavari	17.6681	80.8772
61	Bhalukpong	Kameng	Arunachal Pradesh	West Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.0167	92.6419
62	Bhalwara	Gaur	Madhya Pradesh	Jabalpur	Narmada	Gaur	23.1147	79.9961
63	Bhatpalli	Peddavagu	Telangana	Kumrambhim	Godavari Basin	Godava- ri/Pranhita/Peddavagu	19.3303	79.5042
64	Bhitaura	Ganga	Uttar Pradesh	Fatehpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.0431	80.8542
65	Bhomoraguri	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6103	92.8603
66	Bido	Brahmani	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani	20.8086	85.3473
67	Bihubar	Dikhow	Assam	Sivasagar	Ganga/Brahmaputra/Meghna/Barak	Dikhow	26.8558	94.7994
68	Biligundulu	Cauvery	Tamil Nadu	Krishnagiri	Cauvery	Cauvery	12.1822	77.7239
69	Birdghat	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7444	83.3400
70	Bithoor	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.6169	80.2756
71	Bokajan	Dhansa- ri(South)	Assam	Karbi Anglong	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.0161	93.7872
72	Bolani	Brahmani	Odisha	Sundargarh	Brahmani-Baitarni	Brahmani	22.1300	84.8800
73	Bonaigarh	Rukura	Odisha	Sundargarh/ Odisha	Brahmani-Baitarni	Brahmani/Rukura	21.8200	84.9500
74	Boudh	Mahanadi	Odisha	Boudh/ Odisha	Mahanadi	Mahanadi/ Mahanadi	20.8550	84.3167

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
75	Burhanpur	Tapi	Madhya Pradesh	Khandwa	Tapi	Tapi	21.2994	76.2350
76	Buxar	Ganga	Bihar	Buxar	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5769	83.9756
77	Byaladahalli	Tunga	Karnataka	Davanagere	krishna	Krishna/Tungabhadra/Tunga	14.4339	75.7797
78	Byrnihat	Umtru	Meghalaya	Ri-Bhoi	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Umtru	26.0403	91.8658
79	C.R.B.	Hasdeo	Chattisgarh	Bilaspur	Mahanadi	Hasdeo	22.0244	82.6417
80	C.S-97 A, Farakka	Ganga	West bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	24.7908	87.9367
81	CHAKLAGAON	Manas	Assam	Bongaigaon	Ganga/Brahmaputra/Meghna/Barak	Manas	26.3850	90.8069
82	Champasari	Mahananda	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda	26.7392	88.4228
83	Champua	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	22.0658	85.6733
84	Chandrika Devi	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.9332	80.8627
85	Chandwada	Orsang	Gujarat	Vadodara	Narmada	Narmada/Orsang	22.0500	73.4661
86	CHANGSARI	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2547	91.6603
87	Chapra	Jalangi	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi/Jalangi	23.5042	88.5514
88	CHEL	Chel	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Chel	26.8636	88.6350
89	Chenimari	Buridehing	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.3114	94.8825
90	Chepan	Raidak-I	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Tor-sa/Raidak-I	26.4922	89.7006
91	Chhatnag Allahabad	Ganga	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3931	81.9164
92	Chhidgaon	Ganjal	Madhya Pradesh	Harda	Narmada	Narmada/Ganjal	22.4058	77.3081
93	Chindnar	Indravati	Chattisgarh	Dantewara	Godavari Basin	Godavari/Indravati	19.0794	81.3011
94	Chitrasani	Balaram	Gujarat	Banaskantha	West flowing rivers of Kutchh and Saurashtra including Luni	Banas/Balaram	24.2856	72.5003
95	Chopan	Sone	Uttar Pradesh	Sonbhadra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.5333	83.0500
96	Chotabekra	Barak	Manipur	Jiribam	Ganga/Brahmaputra/Meghna/Barak	Barak	24.6721	93.1039
97	Chouldhowaghat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	27.4475	94.2528
98	Chunchankatte	Cauvery	Karnataka	Mysuru	Cauvery	Cauvery	12.5067	76.3008
99	CORONATION	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.9025	88.4731
100	D.R.F	Puthimari	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.7750	91.6892
101	Dabri	Ramganga	Uttar Pradesh	Shahjahanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	27.4958	79.6972
102	Dameracherla	Musi	Telangana	Nalgonda	krishna	Krishna/Musi	16.7392	79.6697

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
103	Dawki	Umngot	Meghalaya	Jaintia Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Umngot	25.1897	92.0228
104	Delhi Rly Bridge	Yamuna	Delhi	North Delhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.6625	77.2467
105	Deongaon Bridge	Bhima	Karnataka	Bijapur	krishna	Krishna/Bhima	17.1703	76.3283
106	Deoprayag(G)	Ganga	Uttarakhand	Pauri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1414	78.5969
107	DEOSUGUR	Krishna	Karnataka	Raichur	krishna	Krishna	16.3822	77.3572
108	Derol Bridge	Sabarmati	Gujarat	Sabarkantha	Sabarmati	Sabarmati	23.5764	72.8069
109	Desangpani	Desang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	27.0472	94.9125
110	DHALEGAON	Godavari	Maharashtra	Parbhani	Godavari Basin	Godavari	19.2203	76.3633
111	Dhamkund	Chenab	Jammu & Kashmir	Ramban	Indus Basin	Chenab	33.2431	75.1458
112	Dhaneta	Bahgul	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ramganga / Bahgul	28.4231	79.8108
113	Dharamtul	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1661	92.3556
114	Dheng Bridge	Bagmati	Bihar	Sitamarhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Bagmati	26.7234	85.3260
115	Dholabazar	Lohit	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Lohit	27.7900	95.6006
116	Dholai	Rukni	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak/Rukni	24.5861	92.8422
117	Dhubri	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.0167	89.9903
118	DIANA	Diana	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Diana	26.8614	89.0011
119	Dibrugarh	Brahmaputra	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	27.4989	94.8558
120	Dillighat	Desang	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Desang	27.1400	95.3700
121	Dimapara	Bugi	Meghalaya	South Garo Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Bugi	25.2308	90.2500
122	Dindori	Narmada	Madhya Pradesh	Dindori	Narmada	Narmada	22.9478	81.0761
123	Domohani	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.5628	88.7583
124	Domuhani	Subarna- rekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.8356	86.1611
125	Duddhi	Kanhar	Uttar Pradesh	Sonbhadra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone/Kanhar	24.2272	83.2706
126	Dudhnoi	Dhudnoi	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Dhudnoi	25.9806	90.7906
127	Durvesh	Wagh	Maharashtra	Thane	West flowing rivers from Tapi to Tadri	Damanganga/Wagh	19.7131	72.9300
128	Ekmighat	Adhwara	Bihar	Dharbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/	26.1194	85.8764



S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
						Bagmati/Adhwara		
129	Elginbridge	Ghaghra	Uttar Pradesh	Barabanki	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	27.0956	81.4839
130	Elunuthimangalam	Noyyal	Tamil Nadu	Erode	Cauvery	Cauvery/Noyyal	11.0317	77.8875
131	Englishbazar	Mahananda	West Bengal	Malda	Ganga/Brahmaputra/Meghna/Barak	Padma/Mahananda	25.0113	88.1519
132	Erinjipuzha	Payaswani	Kerala	Kasargod	West Flowing rivers from Tadri to Kanya-kumari	Payaswani	12.4792	75.1472
133	Etawah	Yamuna	Uttar Pradesh	Etawah	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.7500	78.9833
134	Faizabad U/S	Ghaghra	Uttar Pradesh	Faizabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.7786	82.0817
135	Fakirabazar	Longai	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara/Longai	24.8517	92.3500
136	Farakka/(HR)	Feeder Canal	West bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Feeder Canal	24.7953	87.9317
137	Fatehgarh	Ganga	Uttar Pradesh	Farukhabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.4042	79.6250
138	Fulertal	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.7886	93.0189
139	Gadarwara	Sakkar	Madhya Pradesh	Narsinghpur	Narmada	Narmada/Sakkar	22.9228	78.7908
140	Gadat	Ambika	Gujarat	Palghar	West flowing rivers from Tapi to Tadri	Ambika	20.8581	72.9850
141	Galeta	Hindon	Uttar Pradesh	Meerut	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Hindon	29.0756	77.4625
142	Gandhighat	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6217	85.1711
143	GANDLAPET	Peddavagu	Telangana	Nizamabad	Godavari Basin	Godavari/Peddavagu	18.8289	78.4367
144	Ganguwala	Bata	Himachal Pradesh	Sirmaur	Ganga/Brahmaputra/Meghna/Barak	Yamuna/Bata	30.4369	77.5786
145	Ganod	Bhadar	Gujarat	Rajkot	West flowing rivers of Kutchh and Saurashtra including Luni	Bhadar	21.6647	70.1811
146	Garhmukteshwar	Ganga	Uttar Pradesh	Ghaziabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	28.7667	78.1417
147	Garudeshwar	Narmada	Gujarat	Narmada	Narmada	Narmada	21.8850	73.6544
148	Gatora-I	Arpa	Chattisgarh	Bilaspur	Mahanadi	Arpa	22.0903	82.1501
149	Gatora-II	Arpa	Odisha	Bilaspur	Mahanadi	Arpa	22.0714	82.1886
150	Gaya	Phalgu	Bihar	Gaya	Ganga/Brahmaputra/Meghna/Barak	Ganga/Phalgu	24.7717	85.0100
151	GAZOLDOBA	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.7525	88.5872
152	Gelbil	Doyang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Dayang	26.2411	93.9836
153	Gharmura	Dhaleswari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Dhaleswari	24.3667	92.5489
154	Ghat	Sarju	Uttarakhand	Pithoragarh	Ganga/Brahmaputra/Meghna/Barak	Gan-ga/Ghaghra/Sharda/Sarju	29.5000	80.1278
155	Ghatora	Arpa	Chattisgarh	Bilaspur	Mahanadi	Mahanadi/Seonath	22.0567	82.2194

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
156	Ghatsila	Subarna- rekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.5806	86.4683
157	Ghatsila Road Bridge	Subarna- rekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.5945	86.4478
158	Ghazipur	Ganga	Uttar Pradesh	Ghazipur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5697	83.5783
159	GHISH	Ghish	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Ghish	26.8747	88.6094
160	Ghugumari	Torsa	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.2878	89.4608
161	Goalpara	Brahmaputra	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2042	90.5814
162	Golaghat	Dhansiri(Sout h)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.5033	93.9519
163	GOLOKGANJ	Sankosh	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Sankosh	26.1072	89.8225
164	Gomlai	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	21.8378	84.9425
165	Gomti Nagar	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.8172	80.0140
166	Gopalkheda	Purna	Maharashtra	Akola	Tapi	Tapi/Purna	20.8742	76.9897
167	Gopiballabhpur	Subarna- rekha	West Bengal	Paschim Midnapur/ West Bengal	Subarnarekha	Subarnarekha/ Subarna- rekha	22.2197	86.9047
168	Gorakhpur D/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7055	83.3497
169	Gorakhpur U/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7525	83.3242
170	Govindapur	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	21.5478	86.9181
171	Gudari	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.3833	83.7922
172	Guma Phoolbari (Tarabari)	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2572	91.1164
173	Gummanur	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing rivers between Pennar and Kanyakumari	Ponnaiyar	12.5550	78.1386
174	Gumrabazar	Gumra	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Meghna/Surma/ Gumra	25.0119	92.5100
175	Gunupur	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.0833	83.8056
176	Guwahati D.C. Court	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1947	91.7431
177	Haladi	Halady	Karnataka	0	West Flowing rivers from Tadri to Kanya- kumari	Halady	13.5817	74.8578
178	Halia	Halia	Telangana	Nalgonda	krishna	Krishna/Halia	16.7900	79.3388
179	Handia	Narmada	Madhya Pradesh	Harda	Narmada	Narmada	22.4917	76.9936

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
180	Hanskhali	Churni	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi/Churni	23.3578	88.6086
181	Harangajao	Jatinga	Assam	Dima Hasao	Ganga/Brahmaputra/Meghna/Barak	Jatinga	25.1161	92.8531
182	Haridwar	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9450	78.1653
183	HARIDWAR D/S	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9628	78.1731
184	Hariharapura	Tunga	Karnataka	Chikmagalur	Krishna	Tunga	13.5222	75.3033
185	Harlahalli	Tungabhadra	Karnataka	Haveri	krishna	Krishna/Tungabhadra	14.8306	75.7228
186	HASIMARA	Torsa	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.7292	89.3236
187	Hathi Khana	Ganga	Uttar Pradesh	Fatehgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.3479	79.6436
188	Hathidah	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3686	85.9886
189	Hayaghat	Bagmati	Bihar	Darbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/Bagmati	26.0375	85.8864
190	Hivra	Wardha	Maharashtra	Wardha	Godavari Basin	Godavari/Pranhita/Wardha	20.5472	78.3247
191	Honnali	Tungabhadra	Karnataka	Davangere	krishna	Krishna/Tungabhadra	14.2372	75.6625
192	Hoshangabad	Narmada	Madhya Pradesh	Hoshangabad	Narmada	Narmada	22.7561	77.7328
193	Indupur	Brahmani	Odisha	Kendrapara	Brahmani-Baitarni	Brahmani	20.6397	86.4039
194	Jagdulpur	Indravati	Chattisgarh	Bastar	Godavari Basin	Godavari/Indravati	19.1081	82.0228
195	Jagibhakatgaon	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1608	92.2169
196	Jajmau	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4094	80.4438
197	Jaldhaka NH-31	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.5697	88.9383
198	Jammu Tawi	Tawi	Jammu & Kashmir	Jammu	Indus Basin	Chenab/Tawi	32.7629	74.8844
199	Jamshedpur	Subarna- rekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.8156	86.2161
200	Jamsholaghat	Subarna- rekha	Odisha	Mayurbhanj	Subarnarekha	Subarnarekha	22.2197	86.7167
201	Japla	Sone	Jharkhand	Palamu	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.5669	83.9758
202	Jaraikela	Koel	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani/Koel	22.3217	85.1047
203	Jaunpur	Gomti	Uttar Pradesh	Jaunpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	25.7500	82.6644
204	Jenapur	Kagna	Odisha	Jajpur	Brahmani-Baitarni	Krishna/Bhima/ Kagna	20.8897	86.0142
205	Jhanjharpur	Kamla-Balan	Bihar	Madhubani	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/Kamla-Balan	26.2266	86.2561
206	Jiabharali NT Road X- ing	Jiabharali	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Jiabharali	26.8097	92.8764

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
207	K M Vadi	Lakshman-thirtha	Karnataka	Mysuru	Cauvery	Cauvery/Lakshmanthirtha	12.3461	76.2878
208	Kabirganj	Sarda	Uttar Pradesh	Pilibhit	Ganga/Brahmaputra/Meghna/Barak	Sarda	28.5000	80.3792
209	Kachlabridge	Ganga	Uttar Pradesh	Badaun	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.9319	78.8606
210	Kailash Mandir Benpur U/S of Agra	Yamuna	Uttar Pradesh	Agra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.2361	77.9306
211	Kakarghatti	KamlaBalan	Bihar	Bihar	Ganga/Brahmaputra/Meghna/Barak	Kamla Balan	26.1886	85.9508
212	Kalampur	Kaliyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha/ Kaliyar	9.9906	76.6322
213	Kalanaur	Yamuna	Uttar Pradesh	Saharanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.0694	77.3644
214	Kallooppara	Manimala	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa/Manimala	9.4036	76.6503
215	Kalna (EBB)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725
216	Kalna (Flow)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725
217	Kalpadai	Gomukhi Nadi(N)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(N)	11.7889	78.7866
218	KALPI	Yamuna	Uttar Pradesh	Jalaun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	26.2000	79.7000
219	Kamalanga	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.8872	85.2787
220	Kampur	Kopili	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1531	92.6564
221	Kannauj	Kali	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Kali	27.0127	79.9841
222	Kanpur	Ganga	Uttar Pradesh	Kanpur Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4694	80.3764
223	Kantamal	Tel	Odisha	Boudh	Mahanadi	Mahanadi/Tel	20.6500	83.7222
224	Kanti	BurhiGandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.2735	85.3004
225	Karathodu	Kadalundi	Kerala	Malappuram	West Flowing rivers from Tadri to Kanyakumari	Kadalundi	11.0569	76.0394
226	Karimganj	Kushiyara	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara	24.8761	92.3619
227	Karnal	Yamuna	Haryana	Karnal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	29.6956	77.1428
228	Kasganj	Kali	Uttar Pradesh	Etah	Ganga/Brahmaputra/Meghna/Barak	Kali	27.7879	78.6253
229	Kashinagar	Vamsadhara	Odisha	Gajapati	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	18.8483	83.8731
230	Katri Umraoli	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.1506	79.8839
231	Katwa	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.6436	88.1478

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
232	Kazipura	Gomti	Uttar Pradesh	Moradabad	Ganga/Brahmaputra/Meghna/Barak	Gomti	28.9871	78.7417
233	Keesara	Munneru	Andhra Pradesh	Krishna	krishna	Krishna/Munneru	16.7156	80.3164
234	Kellodu	Vedavathi	Karnataka	Chitradurga	krishna	Krishna Tungabhadra/ Vedavathi	13.7542	76.3197
235	Keolari	Wainganga	Madhya Pradesh	Seoni	Godavari Basin	Godava- ri/Pranhita/Wainganga	22.3819	79.9000
236	Keonjhar	Aradi	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni/Aradi	21.6278	85.6314
237	Kesinga	Tel	Odisha	Kalahandi	Mahanadi	Mahanadi/Tel	20.2039	83.2231
238	KHANITAR	Teesta	Sikkim	East Sikkim (Gangtok)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	27.1778	88.5133
239	Khanpur	Mahi	Gujarat	Anand	Mahi	Mahi	22.5347	73.1408
240	Kharkhana	Myntdu	Meghalaya	West Jaintia Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Myntdu	25.1583 33	92.214444
241	Kheronighat	Kopili	Assam	Karbi Anglong	Ganga/Brahmaputra/Meghna/Barak	Kopili	25.8483	92.8867
242	Kidangoor	Meenachil	Kerala	Kottayam	West Flowing rivers from Tadri to Kanya- kumari	Meenachil	9.6756	76.6056
243	KIRTINAGAR D/S	Alkananda	Uttrakhand	Tehri	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2289	78.7297
244	Kodumudi	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.0811	77.8903
245	Koelwar	Sone	Bihar	Bhojpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	25.5714	84.7947
246	Kogaon	Kundi	Madhya Pradesh	Khargone	Narmada	Narmada/Kundi	22.1014	75.6842
247	Kokiwada	Pench	Madhya Pradesh	Chindawara	Godavari Basin	Godava- ri/Pranhita/Wainganga/Pe nch	21.8977	79.2344
248	Kokkedoddy	Arkavathy	Karnataka	Ramanagara	Cauvery	Arkavathy	12.2961	77.4403
249	Kokrajarhar	Gaurang	Assam	Kokrajarhar	Ganga/Brahmaputra/Meghna/Barak	Gaurang	26.3964	90.2544
250	Konta	Sabari	Chattisgarh	Dantewara	Godavari Basin	Godavari/Sabari	17.7989	81.3928
251	KOPERGAON	Godavari	Maharashtra	Ahmednagar	Godavari Basin	Godavari	19.8783	74.4819
252	Korba	Hasdeo	Chattisgarh	Korba	Mahanadi	Mahanadi/Hasdeo	22.3583	82.6875
253	Korba 1	Hasdeo	Chattisgarh	Korba	Mahanadi	Hasdeo	22.3416	82.6886
254	Koteshwar	Bhagirath	Uttarakhand	Tehri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirath	30.3308	78.4883
255	Kudalaiyathur	Vellar	Tamil Nadu	Cuddalore	East Flowing rivers between Pennar and Kanyakumari	Vellar	11.4222	79.4722
256	Kuldah Bridge	Sone	Madhya Pradesh	Sidhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.4128	81.7039

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
257	Kulpatanga	Kharkai	Jharkhand	Purba Singhbhum	Subarnarekha	Kharkai	22.7658	86.1591
258	Kulsi	Kulsi	Assam	Kamrup (Rural)	Ganga/Brahmaputra/Meghna/Barak	Kulsi	25.9792	91.3858
259	Kumarapalayam	Varahanadhi	Pondicherry	Podicherry	East Flowing rivers between Pennar and Kanyakumari	Varahanadhi	11.9833	79.6806
260	Kumbidi	Bharathapuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha	10.8500	76.0200
261	Kumhari	Wainganga	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Wainganga	21.8842	80.1750
262	Kuniyil	Chaliyar	Kerala	Malappuram	West Flowing rivers from Tadri to Kanyakumari	Chaliyar	11.2394	76.0233
263	Kurubhata	Mand	Chattisgarh	Raigarh	Mahanadi	Mahanadi/Mand	21.9864	83.2042
264	Kusei	Kusei	Odisha	Keonjhar	Brahmani-Baitarni	Kusei	21.1600	86.1243
265	Kuthnuor	Yamuna	Uttarakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.8739	78.3028
266	Kuzhithurai	Thambraparni	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Thambraparni	8.3053	77.1856
267	Labha	Mahananda(Fulahar)	Bihar	Katihar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda(Fulahar)	24.8833	87.7000
268	Lakhisarai	Kiul	Bihar	Lakhisarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kiul	25.1847	86.1022
269	Lakhoura	Kachhua	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Kachhua	25.7150	85.6300
270	Lakkavalli	Bhadra	Karnataka	Shimoga	Krishna	Bhadra	13.7061	75.6450
271	Lalganj	Gandak	Bihar	Vaishali	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	25.8453	85.1544
272	Lalpur	Sengar	Uttar Pradesh	Kanpur Dehat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sengar	26.2714	79.9500
273	LAVEN	Teesta	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Kanaka/Teesta	27.5375	88.4944
274	Lodhikheda	Jam	Madhya Pradesh	Chindawara	Godavari Basin	Godavari/Pranhita/Wardha/Jam	21.5792	78.8655
275	Lowara	Shetruni	Gujarat	Bhavnagar	West flowing rivers of Kutchh and Saurashtra including Luni	Shetruni	21.4439	71.5603
276	Lucknow	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	26.8611	80.9464
277	Lupungdih	Subarnarekha	Odisha	Saraikela kharsawan	Subarnarekha	Subarnarekha	22.3497	87.4967
278	M.B.P.L.	Hasdeo	Chattisgarh	Bilaspur	Mahanadi	Hasdeo	22.0131	82.6480
279	M.H. Halli	Hemavati	Karnataka	Hassan	Cauvery	Cauvery/Hemavati	12.8189	76.1333
280	MACHAIGAON (krishna Bihari)	Dirai	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dirai	27.7542	94.7881
281	Madamon	Pamba	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanya-	Pamba	9.3639	76.8378

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
					kumari			
282	Madhabarida	Badanadi	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya/Badanadi	19.8531	84.6264
283	Madhira	Wyra	Telangana	Khamman	krishna	Krishna/Munneru/Wyra	16.9181	80.3558
284	Maghadharra	Wainganga	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Wainganga	22.2394	80.0939
285	Mahalgaoon	Wainganga	Madhya Pradesh	Gondia	Godavari Basin	Godavari/Pranhita/Wainganga	21.5505	80.0266
286	Mahendipur	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.0101	79.9855
287	Mahuwa	Purna	Gujarat	Surat	West Flowing rivers from Tapi to Tadri	Purna	21.0158	73.1356
288	Maighat	Gomti	Uttar Pradesh	Jaunpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	25.6436	82.8467
289	Majhitar	Rangit	Sikkim	South Sikkim (Namchi)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta/Rangit	27.1078	88.3217
290	Malakkara	Pampa	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa	9.3325	76.6631
291	MALIBARI	Jaljoli	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Jaljoli	26.0760	91.1045
292	Manakkad	Thodupuzha	Kerala	idukki	West Flowing rivers from Tadri to Kanyakumari	Thodupuzha	9.9088	76.6961
293	Manas	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.4645	90.7494
294	Mancherial	Godavari	Telangana	Adilabad	Godavari Basin	Godavari	18.8358	79.4447
295	Mandawara	Chambal	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	25.3853	76.1519
296	Manendragarh	Hasdeo	Chattisgarh	Koria	Mahanadi	Mahanadi/Hasdeo	23.2036	82.2172
297	Manghi	Ghaghra	Bihar	Saran	Ganga/Brahmaputra/Meghna/Barak	Ghaghra	25.8258	84.5831
298	Mankara	Bharathapuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha	10.7611	76.4861
299	Manot	Narmada	Madhya Pradesh	Mandla	Narmada	Narmada	22.7358	80.5131
300	Mantralayam	Tungabhadra	Andhra Pradesh	Kurnool	krishna	Krishna/Tungabhadra	15.9483	77.4264
301	Manughat	Manu	Tripura	Dholai	Ganga/Brahmaputra/Meghna/Barak	Manu	23.9906	91.9934
302	Margherita	Buridehing	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.2844	95.6628
303	Marol	Varada	Karnataka	Haveri	krishna	Krishna Tungabhadra/Varada	14.9389	75.6181
304	Mataji	Mahi	Madhya Pradesh	Ratlam	Mahi	Mahi	23.3497	74.7178

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
305	Mathabhanga	Jaldhaka	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.3253	89.2356
306	Mathanguri	Beki	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Beki	26.7819	90.9572
307	Mathura	Yamuna	Uttar Pradesh		Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	27.4417	77.7150
308	Matigara	Balason	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Gan-ga/Mahananda/Balason	26.7203	88.3769
309	Matijuri	Dhaleshwari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Barak/ Katakhal/ Dhaleshwari	24.6481	92.6114
310	Matunga	Kalanadi	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Kalanadi	26.7917	91.5356
311	Mawi	Yamuna	Uttar Pradesh	Muzaffar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	29.3847	77.1556
312	Mayambadi	Gomukhi Nadi(S)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(S)	11.7376	78.79080
313	Meja Road	Tons	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Tons	25.2333	82.0378
314	Mekhliganj Right Bank	Teesta	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.3325	88.8636
315	Melliaputti	Vamsadhara	Andhra Pradesh	Srikakulam/ Andhra Pradesh	East Flowing Rivers between Mahanadi and Pennar	Mahendratanaya/ Vamsadhara	18.7833	84.1833
316	Miao	Noa-dehing	Arunachal Pradesh	Changlang	Ganga/Brahmaputra/Meghna/Barak	Noa-dehing	27.4972	96.2187
317	Mirzapur	Ganga	Uttar Pradesh	Mirzapur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.1561	82.5303
318	MOHANA	Yamuna	Haryana	Faridabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.2242	77.4569
319	Mohgaoan	Burhner	Madhya Pradesh	Mandla	Narmada	Narmada/Burhner	22.7658	80.6233
320	Moradabad	Ramganga	Uttar Pradesh	Moradabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ramganga	28.8267	78.7981
321	Motinaroli	Kim	Gujarat	Surat	Tapi	Kim (Indepent River)	21.4044	72.9625
322	Mungoli	Penganga	Maharashtra	Chandrapur	Godavari Basin	Godava- ri/Pranhita/Wardha/Penga nga	19.8650	79.1261
323	MUNUGODU	Edduvagu	Andhra Pradesh	Guntur	krishna	Edduvagu	16.5547	80.2064
324	Murappanadu	Tambraparni	Tamil Nadu	Tuticorin	East Flowing rivers between Pennar and Kanyakumari	Tambraparni	8.7144	77.8350
325	Muri	Subarna- rekha	Jharkhand	Ranchi	Subarnarekha	Subarnarekha	22.8167	86.2131
326	MURTI	Murti	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmapu- tra/Jaldhaka/Murti	26.8406	88.8283
327	Mushal	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarani	21.3258	86.0401



S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
328	Musiri	Cauvery	Tamil Nadu	Thiruchirapalli	Cauvery	Cauvery	10.9433	78.4350
329	Muthankera	Kabini	Kerala	Wynad	Cauvery	Cauvery/Kabini	11.8083	76.0839
330	NAGRAKATA	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.8728	88.8953
331	Naharkatia	Buridehing	Assam	Dibrugarh	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.3003	95.3306
332	Naidupet	Swarnamukhi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Swarnamukhi	13.9472	79.8972
333	Nallamaranpatty	Amaravathi	Tamil Nadu	Karur	Cauvery	Cauvery/ Amaravathi	10.8808	77.9847
334	Namsai	Noa-dehing	Arunachal Pradesh	Namsai	Ganga/Brahmaputra/Meghna/Barak	Noa-dehing	27.6661	95.8303
335	Nanded	Godavari	Maharashtra	Nanded	Godavari Basin	Godavari	19.1417	77.3203
336	Nandgaon	Wunna	Maharashtra	Wardha	Godavari Basin	Godava- ri/Pranhita/Wardha/Wunna	20.5255	78.8088
337	Nandira	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.8879	85.2622
338	Nanglamoraghat	Disang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	26.9850	94.7769
339	NASIK	Godavari	Maharashtra	Nasik	Godavari Basin	Godavari	20.0019	73.8033
340	Naugaon	Yamuna	Uttarakhand	Uttarakashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.7917	78.1353
341	Neamatighat	Brahmaputra	Assam	Jorhat	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.8700	94.2522
342	Neeleswaram	Periyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Periyar	10.1833	76.5000
343	Neemsar	Gomti	Uttar Pradesh	Sitapur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	27.3461	80.4778
344	Nellipally	Kallada	Kerala	Kollam	West Flowing rivers from Tadri to Kanyakumari	Kallada	9.0279	76.925000
345	Nirmali	Kosi	Bihar	Supaul	Ganga/Brahmaputra/Meghna/Barak	Kosi	26.3036	86.5783
346	NONA	Nona	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Nona	26.4439	91.5600
347	NOUKAGHAT	Mahananda	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda	26.6900	88.4069
348	Nowrangpur	Indravati	Odisha	Nowrangpur	Godavari Basin	Godavari/ Indravati	19.1975	82.5119
349	Numaligarh	Dhansiri(South)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.6311	93.7303
350	Odenthurai	Kallar	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Kallar	11.3218	76.8928
351	P.G.Bridge	Penganga	Maharashtra	Yavatmal	Godavari Basin	Godava- ri/Pranhita/Wardha/Penganga	19.8175	78.5778

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
						nga		
352	P.I.L.	Hasdeo	Chattisgarh	Janjgir-Champa	Mahanadi	Hasdeo	21.9631	82.6812
353	Pachauli	Sind	Madhya Pradesh	Shivpuri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Sind	25.1789	77.6869
354	PACHEGAON	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.5344	74.8339
355	Paderdibadi	Mahi	Rajasthan	Dungarpur	Mahi	Mahi	23.7594	74.1333
356	Pagladiya	Pagladiya	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Pagladiya	26.4508	91.4603
357	Palakkadavu	Karuvannur	Kerala	Thrissur	West Flowing rivers from Tadri to Kanya-kumari	Karuvannur	10.4251	76.2378
358	Paleru Bridge	Paleru	Andhra Pradesh	Krishna	krishna	Krishna/Paleru	16.9489	80.0478
359	Paliakalan	Sharda	Uttar Pradesh	Lakhimpur Khiri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Sharda	28.3833	80.5500
360	Palla	Yamuna	Delhi	North West Delhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.8294	77.2242
361	Panbari	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.5917	90.8290
362	Pancharatna	Brahmaputra	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2094	90.5533
363	Pandu	Brahmaputra	Assam	Kamrup (Metro)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1753	91.6694
364	Panposh	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.2772	84.8519
365	Panposh I	Sankh	Odisha	Sundergarh	Brahmani-Baitarni	Sankh	22.2376	84.80334
366	Panposh II	Koel	Odisha	Sundergarh	Brahmani-Baitarni	Koel	22.2376	84.80334
367	Parmarth Ghat	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4872	80.3445
368	Parsohan Ghat	Ratpi (Burhi Rapti)	Uttar Pradesh	Sidharthnagar	Ganga/Brahmaputra/Meghna/Barak	Ratpi (Burhi Rapti)	27.3953	82.5625
369	Passighat	Siang	Arunachal Pradesh	East Siang	Ganga/Brahmaputra/Meghna/Barak	Siang	28.0731	95.3403
370	PATACHARKUCHI	Kalodiya	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Kalodiya	26.5053	91.2364
371	Patala	Wardha	Maharashtra	Yavatmal	Godavari Basin	Godavari/Pranhita/Wardha	20.1261	79.0008
372	Patan	Hiran	Madhya Pradesh	Jabalpur	Narmada	Narmada/Hiran	23.3111	79.6619
373	Patansaongi	Chandrabhaga	Maharashtra	Nagpur	Godavari Basin	Godavari/Pranhita/Wainganga/Kanhan/Chandrabhaga	21.3211	79.0247
374	Pathagudem	Indravati	Chattisgarh	Dantewara	Godavari Basin	Godavari/Indravati	18.8525	80.3494
375	Patharidih	Kharun	Chattisgarh	Raipur	Mahanadi	Mahanadi/Seonath/Kharun	21.3411	81.5939
376	Pattazhy	Kallada	Kerala	Kollam	West Flowing rivers from Tadri to Kanya-kumari	Kallada	9.0728	76.7611

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
377	Pauni	Wainganga	Maharashtra	Bhandara	Godavari Basin	Godavari/Pranhita/Wainganga	20.7930	79.6483
378	Perumannu	Valapatnam	Kerala	Cannanore	West Flowing rivers from Tadri to Kanyakumari	Valapatnam	11.9814	75.5875
379	Perur	Godavari	Telangana	Khammam	Godavari Basin	Godavari	18.5872	80.3958
380	Pingalwada	Dhadhar(Independent river)	Gujarat	Vadodara	Mahi	Dhadhar(Independent river)	22.1108	73.0786
381	Pohumara	Pohumara	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Pohumara	26.4817	91.1164
382	Polavaram	Godavari	Andhra Pradesh	West Godavari	Godavari Basin	Godavari	17.2519	81.6564
383	Porakudi	Arasalar	Tamil Nadu	Nagapattinam	Cauvery	Cauvery/Arasalar	10.9036	79.7072
384	PRAKASHAM BARRAGE	Krishna	Andhra Pradesh	Krishna	krishna	Krishna	16.5078	80.6053
385	Pratapgarh	Sai	Uttar Pradesh	Pratapgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti/Sai	25.9347	82.0019
386	Pratappur	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.3583	74.3842
387	Prem Nagar	Chenab	Jammu & Kashmir	Doda	Indus Basin	Chenab	33.1554	75.7035
388	Pudur	Kannadipuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Kannadipuzha	10.7800	76.5750
389	Pulamanthole	Pulanthodu	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Pulanthodu	10.8992	76.1972
390	Pullukku	Kumaradhara	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Kumaradhara	12.7112	75.469277
391	Purna	Purna	Maharashtra	Parbhani	Godavari Basin	Godavari/Purna	19.1758	77.0131
392	Purunagarh	Baliapita	Odisha	Deogarh/ Odisha	Brahmani-Baitarni	Brahmani/ Baliapita Nala	21.5264	84.7125
393	Purushottampur	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya	19.5167	84.8833
394	Puthimari	Puthimari	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.3667	91.6533
395	Raibareli	Sai	Uttar Pradesh	Raibareli	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti/Sai	26.1986	81.2511
396	RAJAHMUNDRY	Godavari	Andhra Pradesh	East Godavari	Godavari Basin	Godavari	16.9661	81.7831
397	Rajegaon	Bagh	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Bagh	21.6256	80.2539
398	Rajghat (S)	Subarnarekha	Odisha	Balasore	Subarnarekha	Subarnarekha	21.7678	87.1642
399	Rajim	Mahanadi	Chattisgarh	Raipur	Mahanadi	Mahanadi	20.9736	81.8783
400	Ramakona	Kanhan	Madhya Pradesh	Chindawara	Godavari Basin	Godavari/Pranhita/Kanhan	21.7189	78.8242

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
401	Ramamangalam	Muvattupuzha	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha	10.8992	76.1972
402	RAMDIA	Kolong	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Kolong	26.2556	91.4726
403	Rammunshi Bagh	Jhelum	Jammu & Kashmir	Sirnagar	Indus Basin	Jhelum	34.0631	74.8344
404	Ranganadi NT-Road Crossing	Ranganadi	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Ranganadi	27.2039	94.0563
405	Rangeli	som	Rajasthan	Dungarpur	Mahi	Mahi/som	23.8728	74.2236
406	RANGPO	Rangpochu	Sikkim	East Sikkim (Gangtok)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta/Rangpochu	27.1722	88.5297
407	Reguali	Ghaghra	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/	26.7592	83.2906
408	Renukaji	Giri	Himachal Pradesh	Sirmaur	Ganga/Brahmaputra/Meghna/Barak	Yamuna/Giri	30.6044	77.4411
409	RIRIGAON (Kuraua bahi)	Dhansiri (S)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Dhansiri (S)	26.6733	93.6915
410	Rishikesh	Ganga	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1008	78.3039
411	RISHIKESH D/S	Ganga	Uttrakhand	Rishikesh	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.0758	78.2869
412	ROORKEE D/S	Saloni	Uttrakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Saloni	29.8803	77.8975
413	Rothak (Jorthang)	Rangit	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.1717	88.2994
414	RSP-I	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.2108	84.8733
415	RSP-II	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.3522	84.4592
416	RSP-III	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	22.3522	84.4592
417	Rudraprayag	Alaknanda	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Ganga/Alaknanda	30.2875	78.9844
418	Safapora	Jhelum	Jammu & Kashmir	Baramulla	Indus Basin	Jhelum	34.2956	74.6247
419	SAGBARI	Rangit	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.2547	88.3050
420	Saidpur	Ganga	Uttar Pradesh	Saidpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5339	83.2211
421	Saigaon	Manjira	Karnataka	Bidar	Godavari Basin	Godavari/Manjira	18.0758	77.0525
422	Sakhra	Wainganga	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga	20.6213	79.9372
423	Sakmur	Wardha	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha	19.5605	79.6152
424	Sakra	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.0401	85.5574
425	Saloor	Manjira	Telangana	Nizamabad	Godavari Basin	Godavari/Manjira	18.7918	77.8339
426	Samdoli	Varna	Maharashtra	Sangli	Krishna	Krishna/Varna	16.8550	74.4967
427	Sandia	Narmada	Madhya Pradesh	Hoshangabad	Narmada	Narmada	22.9158	78.3475

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
428	Sangam (Kinnerasani)	Kinnerasani	Telangana	Khammam	Godavari Basin	Godavari/ Kinnerasani	17.5908	80.8190
429	SANKOSH LRP	Sankosh	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Sankosh	26.4578	89.8581
430	Santheguli	Aghnanashini	Karnataka	Uthara Kannada	West Flowing rivers from Tadri to Kanya- kumari	Aghnanashini	14.4344	74.5556
431	Saradaput	Sabari	Odisha	Malkangiri	Godavari Basin	Godavari/Sabari	18.6125	82.1428
432	Sarangkheda	Tapi	Maharashtra	Nandurbar	Tapi	Tapi	21.4283	74.5272
433	Satna	Tons	Madhya Pradesh	Satna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Tons	24.5333	80.8883
434	SATPOKHALI	Koa	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Koa	26.0681	91.4592
435	SATPULI D/S	Nayar	Uttarakhand	Pauri	Ganga/Brahmaputra/Meghna/Barak	Nayar	29.9375	78.7022
436	Satrapur	Kanhan	Maharashtra	Nagpur	Godavari Basin	Godava- ri/Pranhita/Wainganga/Ka nhan	21.2167	79.2331
437	Seppa	Kameng	Arunachal Pradesh	East Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.3573	93.0389
438	SEVOKE	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	26.8817	88.4769
439	Shahjahanpur	Khannaut	Uttar Pradesh	Shahjahanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga / Deoha / Khannaut	27.8500	79.9086
440	Shahjina	Betwa	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	25.9500	80.1478
441	Shahzadpur	Ganga	Uttar Pradesh	Kaushambi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6667	81.4300
442	SHALADANG	Kaljani	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Kaljani	26.3011	89.5867
443	Shastri Bridge	Ganga	Uttar Pradesh	Prayagraj	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.4366	81.8892
444	Shella	Umiew	Meghalaya	East Khasi Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Surma/Umiew	25.1956	91.6353
445	Shimoga	Tunga	Karnataka	Shimoga	krishna	Tungabhadra/Tunga	13.9269	75.5850
446	SHOLMARI	Harianadi	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Harianadi	26.3139	91.3400
447	Sikandarpur	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Burhi Gandak	26.1428	85.3761
448	SILGHAT	Brahmaputra	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6181	92.9414
449	Singasadanapalli	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing Rivers between Pennar and Kanyakumari	Ponnaiyar	12.8671	77.8408
450	Singavaram	Chitravathi	Andhra Pradesh	Anantapur	Pennar	Pennar/Chitravathi	14.5978	78.0133
451	Sitapur	Sarayan	Uttar Pradesh	Sitapur	Ganga/Brahmaputra/Meghna/Barak	Gomti / Sarayan	27.5719	80.6856
452	Sivasagar	Dikhow	Assam	Sivasagar	Ganga/Brahmaputra/Meghna/Barak	Dikhow	26.9819	94.5792
453	Sonamura	Gumti	Tripura	West Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/	23.4731	91.2667

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
						Gumti		
454	Sonapur	Digaru	Assam	Kamrup (Rural)	Ganga/Brahmaputra/Meghna/Barak	Digaru	26.1204	91.9784
455	Sorada	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya	19.7556	84.4431
456	SOUTH SALMARA	Brahmaputra	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	25.8881	90.0158
457	Srikakulam	Nagavali	Andhra Pradesh	Srikakulam	East Flowing rivers between Mahanadi and Pennar	Nagavali	18.3133	83.8842
458	Srinagar	Alaknanda	Uttarakhand	Pauri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Alaknanda	30.2258	78.7756
459	Sripalpur	Punpun	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Punpun	25.5002	85.1096
460	Suklai	Suklai	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Suklai	26.6539	91.7153
461	Sullurpet	Kalingi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Kalingi	13.7078	80.0100
462	Sultanpur	Gomti	Uttar Pradesh	Sultanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	26.2758	82.0678
463	Sundargarh	Ib	Odisha	Sundergarh	Mahanadi	Mahanadi/Ib	22.1153	84.0111
464	Swampatna	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.6167	85.9167
465	Syohara	Ramganga	Uttar Pradesh	Bijnaur	Ganga/Brahmaputra/Meghna/Barak	Ramganga	29.3267	78.7597
466	T.Ramapuram	Hagari	Karnataka	Bellary	krishna	Krishna/Tungabhadra/Hagari	15.6611	76.9628
467	tal	Chambal	Madhya Pradesh	Ratlam	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	23.7233	75.3469
468	Talcher	Brahmani	Odisha	Angual	Brahmani-Baitarni	Brahmani	20.9500	85.2500
469	Tanda D/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5449	82.6999
470	Tanda U/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5334	82.6262
471	TeestaBazar	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	27.0500	88.4269
472	Tekra	Pranhita	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Pranhita	18.9783	79.9469
473	Tezpur	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6156	92.7967
474	Tezu	Lohit	Arunachal Pradesh	Lohit	Ganga/Brahmaputra/Meghna/Barak	Lohit	27.9108	96.1706
475	Thengumarahada	Moyar	Tamil Nadu	Nilgiris	Cauvery	Cauvery/Bhavani/Moyar	11.5728	76.9192
476	Theni	Suruliar	Tamil Nadu	Theni	East Flowing rivers between Pennar and Kanyakumari	Vaigai/Suruliar	10.0011	77.4850
477	Therriaghat	Umsohrynkiew	Meghalaya	East Khasi Hills	Ganga/Brahmaputra/Meghna/Barak	Umsohrynkiew	25.1800	91.7678
478	Thimmanahalli	Yagachi	Karnataka	Hassan	Cauvery	Cauvery/Yagachi	12.9825	77.0214

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
479	Thottathinkadavu	Iruvazhin-jipuzha	Kerala	Kozhikode	West Flowing rivers from Tadri to Kanyakumari	Iruvazhinjipuzha	11.3620	76.0019
480	Thumpamon	Achankovil	Kerala	Pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa/Achankovil	9.2250	76.7147
481	Tihar Khera	Ramganga	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ramganga	28.4164	79.2883
482	Tikarapara	Mahanadi	Odisha	Angul	Mahanadi	Mahanadi	20.5894	84.7833
483	Tilga	Sankh	Jharkhand	Simdega	Brahmani-Baitarni	Brahmani/Sankh	22.6233	84.4175
484	Todarpur	sukheta	Uttar Pradesh	Hardoi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Deoha/ sukheta	27.5846	79.9952
485	Triveni	Gandak	Bihar	West Champaran	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	27.4363	83.9077
486	Tufanganj	Raidak-i	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Torsa/Raidak-i	26.3089	89.6756
487	Tuini/pabar	Pabar	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Pabar	30.9603	77.8536
488	Tuini/tons	Tons	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Tons	30.9397	77.8467
489	Turtipar	Ghaghra	Uttar Pradesh	Ballia	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.1667	83.8636
490	Udaipur	Tirap	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra / Tirap	27.3369	95.8517
491	Ujjain	Shipra	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal/Shipra	23.1683	75.7711
492	Upper Rimbi	Rimbikhola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rimbikhola/ Rangit/ Teesta	27.3308	88.1519
493	Urachikottai	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.4778	77.7000
494	Uttarkashi	Bhagirath	Uttarakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirathi	30.7283	78.4461
495	V.S. Bridge	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.2552	83.0253
496	Vandiperiyar	Periyar	Kerala	Idukki	West Flowing rivers from Tadri to Kanyakumari	Periyar	9.5733	77.0908
497	Vapi	Damanganga	Gujarat	Valsad	west flowing rivers from tapi to tadri	Damanganga	20.3389	72.9117
498	Varanasi	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3236	83.0375
499	Varanavasi	Marudaiyar	Tamil Nadu	Ariyalur	Cauvery	Cauvery/Marudaiyar	11.0925	79.08497
500	Vautha	Sabarmati	Gujarat	Kheda	Sabarmati	Sabarmati	22.6503	72.5331
501	Vijayawada	Krishna	Andhra Pradesh	Krishna	krishna	Krishna	16.5011	80.6250
502	Wadenapally	Krishna	Telangana	Nalgonda	krishna	Krishna	16.7942	80.0692
503	Wairagarh	Khobragarhi	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga/Kh	20.4219	80.0917

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
						obragarhi		
504	Yadgir	Bhima	Karnataka	Gulbarga	krishna	Krishna/Bhima	16.7375	77.1253
505	Yashwant nagar	Giri	Himachal Pradesh	Simaur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Giri	30.8867	77.2061
506	Yelli	Godavari	Maharashtra	Nanded	Godavari Basin	Godavari	19.0439	77.4556
507	Yennehole	Swarna	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanya- kumari	Swarna	13.2942	74.9806
508	YUKSUM	Rothangchu	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rothangchu/ Rangit/ Teesta	27.3678	88.2069



## Annexure IV

**List of water quality monitoring stations where the water was found above the acceptable limit (BIS 10500:2012) in presence of only one parameter (Arsenic or Cadmium or Chromium or Copper or Nickel or Lead or Iron)**

### Only Arsenic (As)

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
1	Changsari	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2547	91.6602
2	Porakudi	Arasalar	Tamil Nadu	Nagapattinam	Cauvery	Cauvery/Arasalar	10.9036	79.7072

### Only Cadmium (Cd)

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
1	Kuthnuor	Yamuna	Uttrakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.8738	78.3028

### Only Chromium (Cr)

S.No.	Name Of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
1	Alladupalli	Kunderu	Andhra Pradesh	Kadapa	Pennar	Pennar/Kunderu	14.717222	78.668611
2	Ambasamudram	Vaigai	Tamil Nadu	Theni	East Flowing Rivers Between Pennar and Kanyakumari	Vaigai	9.925556	77.511667
3	Gharmura	Dhaleswari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Dhaleswari	24.366666	92.548888
4	K M Vadi	Lakshmanthirtha	Karnataka	Mysuru	Cauvery	Cauvery/Lakshmanthirtha	12.346111	76.287778
5	Mancherial	Godavari	Telangana	Adilabad	Godavari Basin	Godavari	18.835833	79.444722
6	Patharidih	Kharun	Chattisgarh	Raipur	Mahanadi	Mahanadi/Seonath/Kharun	21.341111	81.593889
7	Shahjina	Betwa	Uttar Pradesh	Hamirpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Betwa	25.95	80.147778

### Only Copper (Cu)

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	Jammu Tawi	Tawi	Jammu & Kashmir	Jammu	Indus Basin	Chenab/Tawi	32.7629	74.8844
2	Triveni	Gandak	Bihar	West Champaran	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	27.4363	83.9077

### Only Lead (Pb)

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	Chaklagaon	Manas	Assam	Bongaigaon	Ganga/Brahmaputra/Meghna/Barak	Manas	26.3850	90.8069
2	Chel	Chel	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Chel	26.8636	88.6350
3	Domohani	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.5628	88.7583
4	Kalanaur	Yamuna	Uttar Pradesh	Saharanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	30.0694	77.3644
5	Kumarapalayam	Varahanadhi	Pondicherry	Podicherry	East Flowing rivers between Pennar and Kanyakumari	Varahanadhi	11.9833	79.6806
6	Mawi	Yamuna	Uttar Pradesh	Muzaffar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	29.3847	77.1556
7	Rudraprayag	Alaknanda	Uttarakhand	Rudraprayag	Ganga/Brahmaputra/Meghna/Barak	Ganga/Alaknanda	30.2875	78.9844
8	Thimmanahalli	Yagachi	Karnataka	Hassan	Cauvery	Cauvery/Yagachi	12.9825	77.0214

### Only Nickel (Ni)

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
1	Bachhwara	Gaya	Bihar	Begusarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gaya	25.5747	85.8887
2	Baghpat	Yamuna	Uttar Pradesh	Baghpat	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.9397	77.2064
3	Banglabasti	Koa	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Koa	26.1991	92.6726
4	Bantwal	Nethravathi	Karnataka	Dakshina Kannada	West Flowing Rivers from Tadri to Kanyakumari	Nethravathi	12.8808	75.0411
5	Bhatpalli	Peddavagu	Telangana	Kumrambhim	Godavari Basin	Godavari/Pranhita/Peddavagu	19.3303	79.5042
6	Biligundulu	Cauvery	Tamil Nadu	Krishnagiri	Cauvery	Cauvery	12.1822	77.7239

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
7	Boudh	Mahanadi	Odisha	Boudh/ Odisha	Mahanadi	Mahanadi/ Mahanadi	20.8550	84.3167
8	Byaladahalli	Tunga	Karnataka	Davanagere	Krishna	Krishna/Tungabhadra/ Tunga	14.4339	75.7797
9	Chunchankatte	Cauvery	Karnataka	Mysuru	Cauvery	Cauvery	12.5067	76.3008
10	Coronation	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.9025	88.4731
11	Dameracherla	Musi	Telangana	Nalgonda	Krishna	Krishna/Musi	16.7392	79.6697
12	Deoprayag(G)	Ganga	Uttarakhand	Pauri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.1414	78.5969
13	Dhamkund	Chenab	Jammu & Kashmir	Ramban	Indus Basin	Chenab	33.2431	75.1458
14	Gatora-I	Arpa	Chattisgarh	Bilaspur	Mahanadi	Arpa	22.0903	82.1501
15	Gatora-II	Arpa	Odisha	Bilaspur	Mahanadi	Arpa	22.0714	82.1886
16	Ghatora	Arpa	Chattisgarh	Bilaspur	Mahanadi	Mahanadi/Seonath	22.0567	82.2194
17	Golokganj	Sankosh	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Sankosh	26.1072	89.8225
18	Harangajao	Jatinga	Assam	Dima Hasao	Ganga/Brahmaputra/Meghna/Barak	Jatinga	25.1161	92.8531
19	Haridwar	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9450	78.1653
20	Haridwar D/S	Ganga	Uttarakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Ganga	29.9628	78.1731
21	Hariharapura	Tunga	Karnataka	Chikmagalur	Krishna	Tunga	13.5222	75.3033
22	Honnali	Tungabhadra	Karnataka	Davangere	Krishna	Krishna/Tungabhadra	14.2372	75.6625
23	Kirtinagar D/S	Alkananda	Uttarakhand	Tehri	Ganga/Brahmaputra/Meghna/Barak	Alkananda	30.2289	78.7297
24	Kokkedoddy	Arkavathy	Karnataka	Ramanagara	Cauvery	Arkavathy	12.2961	77.4403
25	Korba	Hasdeo	Chattisgarh	Korba	Mahanadi	Mahanadi/Hasdeo	22.3583	82.6875
26	Korba 1	Hasdeo	Chattisgarh	Korba	Mahanadi	Hasdeo	22.3416	82.6886
27	Koteshwar	Bhagirath	Uttarakhand	Tehri Garhwal	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirath	30.3308	78.4883
28	Lakhoura	Kachhua	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Kachhua	25.7150	85.6300
29	Laven	Teesta	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Kanaka/Teesta	27.5375	88.4944
30	M.H. Halli	Hemavati	Karnataka	Hassan	Cauvery	Cauvery/Hemavati	12.8189	76.1333
31	Machaigaon (Krishna Bihari)	Dirai	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dirai	27.7542	94.7881
32	Murappanadu	Tambraparni	Tamil Nadu	Tuticorin	East Flowing Rivers Between Pennar And Kanya- kumari	Tambraparni	8.7144	77.8350

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
33	Musiri	Cauvery	Tamil Nadu	Thiruchirapalli	Cauvery	Cauvery	10.9433	78.4350
34	Odenthurai	Kallar	Tamil Nadu	Coimbatore	Cauvery	Cauvery/Kallar	11.3218	76.8928
35	Palla	Yamuna	Delhi	North West Delhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna	28.8294	77.2242
36	Pratappur	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.3583	74.3842
37	Prem Nagar	Chenab	Jammu & Kashmir	Doda	Indus Basin	Chenab	33.1554	75.7035
38	Rajim	Mahanadi	Chattisgarh	Raipur	Mahanadi	Mahanadi	20.9736	81.8783
39	Rammunshi Bagh	Jhelum	Jammu & Kashmir	Sirnagar	Indus Basin	Jhelum	34.0631	74.8344
40	Ririgaon (Kuraua Bahi)	Dhansiri (S)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Dhansiri (S)	26.6733	93.6915
41	Rishikesh D/S	Ganga	Uttarakhand	Rishikesh	Ganga/Brahmaputra/Meghna/Barak	Ganga	30.0758	78.2869
42	Rothak (Jorthang)	Rangit	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.1717	88.2994
43	Safapora	Jhelum	Jammu & Kashmir	Baramulla	Indus Basin	Jhelum	34.2956	74.6247
44	Sagbari	Rangit	Sikkim	North Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rangit/Teesta	27.2547	88.3050
45	Sakmur	Wardha	Maharashtra	Chandrapur	Godavari Basin	Godavari/Pranhita/Wardha	19.5605	79.6152
46	Sakra	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.0401	85.5574
47	Saloor	Manjira	Telangana	Nizamabad	Godavari Basin	Godavari/Manjira	18.7918	77.8339
48	Samdoli	Varna	Maharashtra	Sangli	Krishna	Krishna/Varna	16.8550	74.4967
49	Shimoga	Tunga	Karnataka	Shimoga	Krishna	Tungabhadra/Tunga	13.9269	75.5850
50	Silghat	Brahmaputra	Assam	Nagaon	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6181	92.9414
51	Singasadanapalli	Ponnaiyar	Tamil Nadu	Krishnagiri	East Flowing Rivers Between Pennar And Kanyakumari	Ponnaiyar	12.8671	77.8408
52	Singavaram	Chitravathi	Andhra Pradesh	Anantapur	Pennar	Pennar/Chitravathi	14.5978	78.0133
53	Tal	Chambal	Madhya Pradesh	Ratlam	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	23.7233	75.3469
54	Teestabazar	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	27.0500	88.4269
55	Theni	Suruliar	Tamil Nadu	Theni	East Flowing Rivers Between Pennar And Kanyakumari	Vaigai/Suruliar	10.0011	77.4850
56	Ujjain	Shipra	Madhya Pradesh	Ujjain	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Cham-	23.1683	75.7711

S.No.	Name of Site	River	State	District	Basin	River/Tributary	Latitude	Longitude
			desh			bal/Shipra		
57	Upper Rimbi	Rimbikhola	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rimbikhola/ Rangit/ Teesta	27.3308	88.1519
58	Urachikottai	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.4778	77.7000
59	Uttarkashi	Bhagirath	Uttarakhand	Uttarkashi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Bhagirathi	30.7283	78.4461
60	Wadenapally	Krishna	Telangana	Nalgonda	Krishna	Krishna	16.7942	80.0692
61	Yuksum	Rothangchu	Sikkim	West Sikkim	Ganga/Brahmaputra/Meghna/Barak	Rothangchu/ Rangit/ Teesta	27.3678	88.2069

### Only Iron (Fe)

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
1	Abu Road	Banas	Rajasthan	Sirohi	West flowing rivers of Kutchh and Saurashtra including Luni	Banas	24.4939	72.7917
2	Adityapur	Kharkai	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha/Kharkai	22.7914	86.1736
3	Aie NH Crossing	Aie	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Aie	26.4975	90.6547
4	Akabarpur	Chhoti Sarju	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Chhoti Sarju	26.4303	82.5619
5	Akhuapada	Baitarni	Odisha	Bhadrak	Brahmani-Baitarni	Baitarni	20.9156	86.2747
6	Altuma	Ramyala	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani/Ramyala	20.9297	85.5189
7	Amarpur	Gumti	Tripura	South Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/Gumti	23.5244	91.6514
8	Amraghat	Sonai	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Sonai	24.6678	92.8924
9	Anakapalli	Sarada	Andhra Pradesh	Visakhapatnam	East Flowing rivers between Mahanadi and Pennar	Sarada	17.6800	83.0200
10	Anandpur	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.2111	86.1206
11	Anna Purna Ghat	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.8189	92.7917
12	Aradei	Aradei	Odisha	Keonjhar	Brahmani-Baitarni	Aradei	20.8595	86.4023
13	Arangaly	Chalakyady	Kerala	Thrissur	West Flowing rivers from Tadri to Kanyakumari	Periyar/Chalakyady	10.2814	76.3153

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
14	Ashramam	Pazhayar	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Pazhayar	8.1593	77.4597
15	Avershe	Seetha	Karnataka	Udupi	West Flowing rivers from Tadri to Kanyakumari	Seetha	13.5214	74.8800
16	Ayilam	Vamanapuram	Kerala	Thiruvanthapuram	West Flowing rivers from Tadri to Kanyakumari	Vamanapuram	8.7150	76.8500
17	Azmabad	Ganga	Bihar	Bhagalpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3275	87.2597
18	Badatighat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	26.9347	93.9622
19	Bakhari (in place of seoni chapara)	Wainganga	Madhya Pradesh	Wainganga	Godavari	Godavari/Pranhita/Wainganga	22.3244	79.4678
20	BALADOBA	Ganghadhar	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Ganghadhar	26.0189	89.8294
21	Balighat	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	24.8717	85.8473
22	Baltara	Kosi	Bihar	Khagaria	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi	25.5415	86.7225
23	Baluaghat	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.4206	83.1836
24	Bamni (Banjar)	Banjar	Madhya Pradesh	Mandla	Narmada	Narmada/Banjar	22.4842	80.3781
25	Bangapani(Munsyari)	Gauri Ganga	Uttarakhand	Pithoragarh	Ganga/Brahmaputra/Meghna/Barak	Mahalai/Gauri Ganga	29.9592	80.3042
26	Banpur	Mathabhanga	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Padma/Mathabhanga	24.1084	87.7989
27	Baripada	Burhabalang	Odisha	Mayurbhanj	Subarnarekha	Burhabalang	21.9311	86.7186
28	Barmanghat	Narmada	Madhya Pradesh	Narsinghpur	Narmada	Narmada	23.0308	79.0156
29	Barobisha	Raidak-II	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra / Sankosh / Raidak-II	26.4744	89.7853
30	Basti D/S	Kwano	Uttar Pradesh	Basti	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Kwano	26.7653	82.7324
31	Beki Road bridge	Beki	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Beki	26.4941	90.9162
32	Bhalukpong	Kameng	Arunachal Pradesh	West Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.0167	92.6419
33	Bhomoraguri	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6103	92.8603
34	Bido	Brahmani	Odisha	Dhenkanal	Brahmani-Baitarni	Brahmani	20.8086	85.3473
35	Bihubar	Dikhow	Assam	Sivasagar	Ganga/Brahmaputra/Meghna/Barak	Dikhow	26.8558	94.7994
36	Bithoor	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.6169	80.2756
37	Bolani	Brahmani	Odisha	Sundargarh	Brahmani-Baitarni	Brahmani	22.1300	84.8800

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
38	Bonaigarh	Rukura	Odisha	Sundergarh/ Odisha	Brahmani-Baitarni	Brahmani/Rukura	21.8200	84.9500
39	Burhanpur	Tapi	Madhya Pradesh	Khandwa	Tapi	Tapi	21.2994	76.2350
40	Byrnihat	Umtru	Meghalaya	Ri-Bhoi	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Umtru	26.0403	91.8658
41	C.S-97 A, Farakka	Ganga	West bengal	Murshidabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	24.7908	87.9367
42	Champua	Baitarni	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	22.0658	85.6733
43	Chandrika Devi	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.9332	80.8627
44	Chapra	Jalangi	West Bengal	Nadia	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi/Jalangi	23.5042	88.5514
45	Chepan	Raidak-I	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa/Raidak-I	26.4922	89.7006
46	Chhatnag Allahabad	Ganga	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3931	81.9164
47	Chhidgaon	Ganjal	Madhya Pradesh	Harda	Narmada	Narmada/Ganjal	22.4058	77.3081
48	Chitrasani	Balaram	Gujarat	Banaskantha	West flowing rivers of Kutchh and Saurashtra including Luni	Banas/Balaram	24.2856	72.5003
49	Chotabekra	Barak	Manipur	Jiribam	Ganga/Brahmaputra/Meghna/Barak	Barak	24.6721	93.1039
50	Chouldhowaghat	Subansiri	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Subansiri	27.4475	94.2528
51	D.R.F	Puthimari	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.7750	91.6892
52	Dawki	Umngot	Meghalaya	Jaintia Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Umngot	25.1897	92.0228
53	Desangpani	Desang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	27.0472	94.9125
54	DHALEGAON	Godavari	Maharashtra	Parbhani	Godavari Basin	Godavari	19.2203	76.3633
55	Dharamtul	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1661	92.3556
56	Dheng Bridge	Bagmati	Bihar	Sitamarhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Bagmati	26.7234	85.3260
57	Dholai	Rukni	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak/Rukni	24.5861	92.8422
58	Dhubri	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.0167	89.9903
59	Dimapara	Bugi	Meghalaya	South Garo Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Bugi	25.2308	90.2500
60	Domuhani	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.8356	86.1611

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
61	Duddhi	Kanhar	Uttar Pradesh	Sonbhadra	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone/Kanhar	24.2272	83.2706
62	Dudhnoi	Dhudnoi	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Dhudnoi	25.9806	90.7906
63	Ekmighat	Adhwara	Bihar	Dharbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/ Bagmati/Adhwara	26.1194	85.8764
64	Erinjipuzha	Payaswani	Kerala	Kasargod	West Flowing rivers from Tadri to Kanyakumari	Payaswani	12.4792	75.1472
65	Fakirabazar	Longai	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara/Longai	24.8517	92.3500
66	Fatehgarh	Ganga	Uttar Pradesh	Farukhabad	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.4042	79.6250
67	Fulertal	Barak	Assam	Cachar	Ganga/Brahmaputra/Meghna/Barak	Barak	24.7886	93.0189
68	Gadarwara	Sakkar	Madhya Pradesh	Narsinghpur	Narmada	Narmada/Sakkar	22.9228	78.7908
69	Gandhighat	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6217	85.1711
70	Garudeshwar	Narmada	Gujarat	Narmada	Narmada	Narmada	21.8850	73.6544
71	GAZOLDOBA	Teesta	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.7525	88.5872
72	Gelbil	Doyang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Dayang	26.2411	93.9836
73	Ghatsila Road Bridge	Subarnarekha	Jharkhand	Purba Singhbhum	Subarnarekha	Subarnarekha	22.5945	86.4478
74	GHISH	Ghish	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Ghish	26.8747	88.6094
75	Goalpara	Brahmaputra	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2042	90.5814
76	Golaghat	Dhansiri(South)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.5033	93.9519
77	Gomlai	Brahmani	Odisha	Sundergarh	Brahmani-Baitarni	Brahmani	21.8378	84.9425
78	Gomti Nagar	Gomti	Uttar Pradesh	Lucknow	Ganga/Brahmaputra/Meghna/Barak	Gomti	26.8172	80.0140
79	Gopalkheda	Purna	Maharashtra	Akola	Tapi	Tapi/Purna	20.8742	76.9897
80	Gopiballabhpur	Subarnarekha	West Bengal	Paschim Midnapur/ West Bengal	Subarnarekha	Subarnarekha/ Subarnarekha	22.2197	86.9047
81	Gorakhpur D/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7055	83.3497
82	Gorakhpur U/S	Rapti	Uttar Pradesh	Gorakhpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra/Rapti	26.7525	83.3242
83	Govindapur	Burhabalang	Odisha	Balasore	Subarnarekha	Burhabalang	21.5478	86.9181
84	Gudari	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.3833	83.7922



S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
85	Guma Phoolbari (Tarabari)	Brahmaputra	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.2572	91.1164
86	Gunupur	Vamsadhara	Odisha	Rayagada	East Flowing rivers between Mahanadi and Pennar	Vamsadhara	19.0833	83.8056
87	Guwahati D.C. Court	Brahmaputra	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1947	91.7431
88	Haladi	Halady	Karnataka	0	West Flowing rivers from Tadri to Kanyakumari	Halady	13.5817	74.8578
89	Halia	Halia	Telangana	Nalgonda	krishna	Krishna/Halia	16.7900	79.3388
90	Handia	Narmada	Madhya Pradesh	Harda	Narmada	Narmada	22.4917	76.9936
91	HASIMARA	Torsa	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Torsa	26.7292	89.3236
92	Hathi Khana	Ganga	Uttar Pradesh	Fatehgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.3479	79.6436
93	Hathidah	Ganga	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.3686	85.9886
94	Hayaghat	Bagmati	Bihar	Darbhanga	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kosi/Bagmati	26.0375	85.8864
95	Indupur	Brahmani	Odisha	Kendrapara	Brahmani-Baitarni	Brahmani	20.6397	86.4039
96	Jagibhakatgaon	Kopili	Assam	Morigaon	Ganga/Brahmaputra/Meghna/Barak	Kopili	26.1608	92.2169
97	Jajmau	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4094	80.4438
98	Jaldhaka NH-31	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.5697	88.9383
99	Japla	Sone	Jharkhand	Palamu	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.5669	83.9758
100	Jaunpur	Gomti	Uttar Pradesh	Jaunpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	25.7500	82.6644
101	Jiabharali NT Road X-ing	Jiabharali	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Jiabharali	26.8097	92.8764
102	Kachlabridge	Ganga	Uttar Pradesh	Badaun	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.9319	78.8606
103	Kakarghatti	KamlaBalan	Bihar	Bihar	Ganga/Brahmaputra/Meghna/Barak	Kamla Balan	26.1886	85.9508
104	Kalampur	Kaliyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha/ Kaliyar	9.9906	76.6322
105	Kallooppara	Manimala	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa/Manimala	9.4036	76.6503
106	Kalna (EBB)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725
107	Kalna (Flow)*	Bhagirathi	West Bengal	Burdwan	Ganga/Brahmaputra/Meghna/Barak	Bhagirathi	23.2253	88.3725
108	Kalpadai	Gomukhi Nadi(N)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(N)	11.7889	78.7866

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
109	Kamalanga	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.8872	85.2787
110	Kantamal	Tel	Odisha	Boudh	Mahanadi	Mahanadi/Tel	20.6500	83.7222
111	Kanti	BurhiGandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Burhi Gandak	26.2735	85.3004
112	Karimganj	Kushiyara	Assam	Karimganj	Ganga/Brahmaputra/Meghna/Barak	Kushiyara	24.8761	92.3619
113	Kashinagar	Vamsadhara	Odisha	Gajapati	East Flowing rivers between Mahanadi and Pen- nar	Vamsadhara	18.8483	83.8731
114	Katri Umraoli	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.1506	79.8839
115	Kazipura	Gomti	Uttar Pradesh	Moradabad	Ganga/Brahmaputra/Meghna/Barak	Gomti	28.9871	78.7417
116	Kellodu	Vedavathi	Karnataka	Chitradurga	krishna	Krishna Tungabhadra/ Vedavathi	13.7542	76.3197
117	Keonjhar	Aradi	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni/Aradi	21.6278	85.6314
118	Kheronighat	Kopili	Assam	Karbi Anglong	Ganga/Brahmaputra/Meghna/Barak	Kopili	25.8483	92.8867
119	Kidangoor	Meenachil	Kerala	Kottayam	West Flowing rivers from Tadri to Kanyakumari	Meenachil	9.6756	76.6056
120	Kodumudi	Cauvery	Tamil Nadu	Erode	Cauvery	Cauvery	11.0811	77.8903
121	Kokrajhar	Gaurang	Assam	Kokrajhar	Ganga/Brahmaputra/Meghna/Barak	Gaurang	26.3964	90.2544
122	Kudalaiyathur	Vellar	Tamil Nadu	Cuddalore	East Flowing rivers between Pennar and Kanya- kumari	Vellar	11.4222	79.4722
123	Kuldah Bridge	Sone	Madhya Pra- des	Sidhi	Ganga/Brahmaputra/Meghna/Barak	Ganga/Sone	24.4128	81.7039
124	Kulsi	Kulsi	Assam	Kamrup (Rural)	Ganga/Brahmaputra/Meghna/Barak	Kulsi	25.9792	91.3858
125	Kumbidi	Bharathapuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha	10.8500	76.0200
126	Kuniyil	Chaliyar	Kerala	Malappuram	West Flowing rivers from Tadri to Kanyakumari	Chaliyar	11.2394	76.0233
127	Kurubhata	Mand	Chattisgarh	Raigarh	Mahanadi	Mahanadi/Mand	21.9864	83.2042
128	Kusei	Kusei	Odisha	Keonjhar	Brahmani-Baitarni	Kusei	21.1600	86.1243
129	Kuzhithurai	Thambraparni	Tamil Nadu	Kanyakumari	West Flowing rivers from Tadri to Kanyakumari	Thambraparni	8.3053	77.1856
130	Labha	Mahanan- da(Fulahar)	Bihar	Katihar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda(Fulahar)	24.8833	87.7000
131	Lakhisarai	Kiul	Bihar	Lakhisarai	Ganga/Brahmaputra/Meghna/Barak	Ganga/Kiul	25.1847	86.1022
132	Lakkavalli	Bhadra	Karnataka	Shimoga	Krishna	Bhadra	13.7061	75.6450

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
133	Lalganj	Gandak	Bihar	Vaishali	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gandak	25.8453	85.1544
134	Madhabarida	Badanadi	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya/Badanadi	19.8531	84.6264
135	Maghadharra	Wainganga	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Wainganga	22.2394	80.0939
136	Mahalgaoon	Wainganga	Madhya Pradesh	Gondia	Godavari Basin	Godavari/Pranhita/Wainganga	21.5505	80.0266
137	Mahendipur	Ganga	Uttar Pradesh	Kannauj	Ganga/Brahmaputra/Meghna/Barak	Ganga	27.0101	79.9855
138	Majhitar	Rangit	Sikkim	South Sikkim (Namchi)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta/Rangit	27.1078	88.3217
139	Malakkara	Pampa	Kerala	pathanamthitta	West Flowing rivers from Tadri to Kanyakumari	Pampa	9.3325	76.6631
140	MALIBARI	Jaljoli	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Jaljoli	26.0760	91.1045
141	Manas	Manas	Assam	Barpeta	Ganga/Brahmaputra/Meghna/Barak	Manas	26.4645	90.7494
142	Mandawara	Chambal	Rajasthan	Kota	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/ Chambal	25.3853	76.1519
143	Manendragarh	Hasdeo	Chattisgarh	Koria	Mahanadi	Mahanadi/Hasdeo	23.2036	82.2172
144	Manghi	Ghaghra	Bihar	Saran	Ganga/Brahmaputra/Meghna/Barak	Ghaghra	25.8258	84.5831
145	Manughat	Manu	Tripura	Dholai	Ganga/Brahmaputra/Meghna/Barak	Manu	23.9906	91.9934
146	Margherita	Buridehing	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Buridehing	27.2844	95.6628
147	Marol	Varada	Karnataka	Haveri	krishna	Krishna Tungabhadra/ Varada	14.9389	75.6181
148	Mathabhanga	Jaldhaka	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.3253	89.2356
149	Matigara	Balason	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda/Balason	26.7203	88.3769
150	Matijuri	Dhaleshwari	Assam	Hailakandi	Ganga/Brahmaputra/Meghna/Barak	Barak/ Katakhal/ Dhaleshwari	24.6481	92.6114
151	Matunga	Kalanadi	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Kalanadi	26.7917	91.5356
152	Mayambadi	Gomukhi Nadi(S)	Tamil Nadu	Villupuram	East Flowing Rivers between Pennar and Kanyakumari	Gomukhi Nadi(S)	11.7376	78.7908
153	Meja Road	Tons	Uttar Pradesh	Allahabad	Ganga/Brahmaputra/Meghna/Barak	Ganga/Tons	25.2333	82.0378
154	Mekhliganj Right Bank	Teesta	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/ Teesta	26.3325	88.8636

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
155	Melliaputti	Vamsadhara	Andhra Pradesh	Srikakulam/ Andhra Pradesh	East Flowing Rivers between Mahanadi and Pennar	Mahendranaya/ Vamsadhara	18.7833	84.1833
156	MUNUGODU	Edduvagu	Andhra Pradesh	Guntur	krishna	Edduvagu	16.5547	80.2064
157	Muri	Subarnarekha	Jharkhand	Ranchi	Subarnarekha	Subarnarekha	22.8167	86.2131
158	MURTI	Murti	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka/Murti	26.8406	88.8283
159	Mushal	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarani	21.3258	86.0401
160	NAGRAKATA	Jaldhaka	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Jaldhaka	26.8728	88.8953
161	Naidupet	Swarnamukhi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Swarnamukhi	13.9472	79.8972
162	Nallamaranpatty	Amaravathi	Tamil Nadu	Karur	Cauvery	Cauvery/ Amaravathi	10.8808	77.9847
163	Namsai	Noa-dehing	Arunachal Pradesh	Namsai	Ganga/Brahmaputra/Meghna/Barak	Noa-dehing	27.6661	95.8303
164	Nanglamoraghat	Disang	Assam	Sibsagar	Ganga/Brahmaputra/Meghna/Barak	Desang	26.9850	94.7769
165	NASIK	Godavari	Maharashtra	Nasik	Godavari Basin	Godavari	20.0019	73.8033
166	Neamatighat	Brahmaputra	Assam	Jorhat	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.8700	94.2522
167	Neeleswaram	Periyar	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Periyar	10.1833	76.5000
168	Neemsar	Gomti	Uttar Pradesh	Sitapur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	27.3461	80.4778
169	Nirmali	Kosi	Bihar	Supaul	Ganga/Brahmaputra/Meghna/Barak	Kosi	26.3036	86.5783
170	NONA	Nona	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Nona	26.4439	91.5600
171	NOUKAGHAT	Mahananda	West Bengal	Jalpaiguri	Ganga/Brahmaputra/Meghna/Barak	Ganga/Mahananda	26.6900	88.4069
172	Numaligarh	Dhansiri(South)	Assam	Golaghat	Ganga/Brahmaputra/Meghna/Barak	Dhansiri(S)	26.6311	93.7303
173	PACHEGAON	Pravara	Maharashtra	Ahmednagar	Godavari Basin	Godavari/Pravara	19.5344	74.8339
174	Pagladiya	Pagladiya	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Pagladiya	26.4508	91.4603
175	Palakkadavu	Karuvannur	Kerala	Thrissur	West Flowing rivers from Tadri to Kanyakumari	Karuvannur	10.4251	76.2378
176	Pandu	Brahmaputra	Assam	Kamrup (Metro)	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.1753	91.6694
177	Panposh I	Sankh	Odisha	Sundergarh	Brahmani-Baitarni	Sankh	22.2376	84.80334
178	Panposh II	Koel	Odisha	Sundergarh	Brahmani-Baitarni	Koel	22.2376	84.80334
179	Parmarth Ghat	Ganga	Uttar Pradesh	Kanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	26.4872	80.3445

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
180	Parsohan Ghat	Ratpi (Burhi Rapti)	Uttar Pradesh	Sidharthnagar	Ganga/Brahmaputra/Meghna/Barak	Ratpi (Burhi Rapti)	27.3953	82.5625
181	Passighat	Siang	Arunachal Pradesh	East Siang	Ganga/Brahmaputra/Meghna/Barak	Siang	28.0731	95.3403
182	Patala	Wardha	Maharashtra	Yavatmal	Godavari Basin	Godavari/Pranhita/Wardha	20.1261	79.0008
183	Patan	Hiran	Madhya Pradesh	Jabalpur	Narmada	Narmada/Hiran	23.3111	79.6619
184	Pattazhy	Kallada	Kerala	Kollam	West Flowing rivers from Tadri to Kanyakumari	Kallada	9.0728	76.7611
185	Pauni	Wainganga	Maharashtra	Bhandara	Godavari Basin	Godavari/Pranhita/Wainganga	20.7930	79.6483
186	Perumannu	Valapatnam	Kerala	Cannanore	West Flowing rivers from Tadri to Kanyakumari	Valapatnam	11.9814	75.5875
187	Perur	Godavari	Telangana	Khammam	Godavari Basin	Godavari	18.5872	80.3958
188	Pohumara	Pohumara	Assam	Goalpara	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Pohumara	26.4817	91.1164
189	PRAKASHAM BAR-RAGE	Krishna	Andhra Pradesh	Krishna	krishna	Krishna	16.5078	80.6053
190	Pratapgarh	Sai	Uttar Pradesh	Pratapgarh	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti/Sai	25.9347	82.0019
191	Pudur	Kannadipuzha	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Kannadipuzha	10.7800	76.5750
192	Pulamanthole	Pulanthodu	Kerala	Palakkad	West Flowing rivers from Tadri to Kanyakumari	Bharathapuzha/ Pulanthodu	10.8992	76.1972
193	Pullkukku	Kumaradhara	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Kumaradhara	12.7112	75.4693
194	Purunagarh	Baliapita	Odisha	Deogarh/ Odisha	Brahmani-Baitarni	Brahmani /Baliapita Nala	21.5264	84.7125
195	Purushottampur	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pen-nar	Rushikulya	19.5167	84.8833
196	Puthimari	Puthimari	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Puthimari	26.3667	91.6533
197	RAJAHMUNDRY	Godavari	Andhra Pradesh	East Godavari	Godavari Basin	Godavari	16.9661	81.7831
198	Rajegaon	Bagh	Madhya Pradesh	Balaghat	Godavari Basin	Godavari/Pranhita/Bagh	21.6256	80.2539
199	Rajghat (S)	Subarnarekha	Odisha	Balasore	Subarnarekha	Subarnarekha	21.7678	87.1642
200	Ramamangalam	Muvattupuzha	Kerala	Ernakulam	West Flowing rivers from Tadri to Kanyakumari	Muvattupuzha	10.8992	76.1972
201	Ranganadi NT-Road Crossing	Ranganadi	Assam	Lakhimpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Ranganadi	27.2039	94.0563
202	ROORKEE D/S	Saloni	Uttrakhand	Haridwar	Ganga/Brahmaputra/Meghna/Barak	Saloni	29.8803	77.8975
203	Saidpur	Ganga	Uttar Pradesh	Saidpur	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.5339	83.2211

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
204	Saigaon	Manjira	Karnataka	Bidar	Godavari Basin	Godavari/Manjira	18.0758	77.0525
205	Sakhra	Wainganga	Maharashtra	Gadchiroli	Godavari Basin	Godavari/Pranhita/Wainganga	20.6213	79.9372
206	Sandia	Narmada	Madhya Pradesh	Hoshangabad	Narmada	Narmada	22.9158	78.3475
207	Santheguli	Aghnanashini	Karnataka	Uthara Kannada	West Flowing rivers from Tadri to Kanyakumari	Aghnanashini	14.4344	74.5556
208	Saradaput	Sabari	Odisha	Malkangiri	Godavari Basin	Godavari/Sabari	18.6125	82.1428
209	Sarangkheda	Tapi	Maharashtra	Nandurbar	Tapi	Tapi	21.4283	74.5272
210	SATPOKHALI	Koa	Assam	Kamrup	Ganga/Brahmaputra/Meghna/Barak	Koa	26.0681	91.4592
211	Satrapur	Kanhan	Maharashtra	Nagpur	Godavari Basin	Godavari/Pranhita/Wainganga/Kanhan	21.2167	79.2331
212	Seppa	Kameng	Arunachal Pradesh	East Kameng	Ganga/Brahmaputra/Meghna/Barak	Kameng	27.3573	93.0389
213	SEVOKE	Teesta	West Bengal	Darjeeling	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra/Teesta	26.8817	88.4769
214	Shahzadpur	Ganga	Uttar Pradesh	Kaushambi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.6667	81.4300
215	SHALADANG	Kaljani	West Bengal	Cooch Behar	Ganga/Brahmaputra/Meghna/Barak	Kaljani	26.3011	89.5867
216	Shella	Umiew	Meghalaya	East Khasi Hills	Ganga/Brahmaputra/Meghna/Barak	Meghna/Surma/Umiew	25.1956	91.6353
217	SHOLMARI	Harianadi	Assam	Nalbari	Ganga/Brahmaputra/Meghna/Barak	Harianadi	26.3139	91.3400
218	Sikandarpur	Burhi Gandak	Bihar	Muzaffarpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Burhi Gandak	26.1428	85.3761
219	Sonamura	Gumti	Tripura	West Tripura	Ganga/Brahmaputra/Meghna/Barak	Meghna/Gumti	23.4731	91.2667
220	Sorada	Rushikulya	Odisha	Ganjam	East Flowing rivers between Mahanadi and Pennar	Rushikulya	19.7556	84.4431
221	SOUTH SALMARA	Brahmaputra	Assam	Dhubri	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	25.8881	90.0158
222	Srikakulam	Nagavali	Andhra Pradesh	Srikakulam	East Flowing rivers between Mahanadi and Pennar	Nagavali	18.3133	83.8842
223	Sripalpur	Punpun	Bihar	Patna	Ganga/Brahmaputra/Meghna/Barak	Ganga/Punpun	25.5002	85.1096
224	Suklai	Suklai	Assam	Baksa (BTAD)	Ganga/Brahmaputra/Meghna/Barak	Suklai	26.6539	91.7153
225	Sullurpet	Kalingi	Andhra Pradesh	Nellore	East Flowing rivers between Pennar and Kanyakumari	Kalingi	13.7078	80.0100
226	Sultanpur	Gomti	Uttar Pradesh	Sultanpur	Ganga/Brahmaputra/Meghna/Barak	Ganga/Gomti	26.2758	82.0678
227	Sundargarh	Ib	Odisha	Sundergarh	Mahanadi	Mahanadi/Ib	22.1153	84.0111

S.No.	Name of Site	River	State	District	Basin	River/tributary	Latitude	Longitude
228	Swampatna	Baitarani	Odisha	Keonjhar	Brahmani-Baitarni	Baitarni	21.6167	85.9167
229	Talcher	Brahmani	Odisha	Angul	Brahmani-Baitarni	Brahmani	20.9500	85.2500
230	Tanda D/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5449	82.6999
231	Tanda U/S	Ghaghra	Uttar Pradesh	Ambedkar Nagar	Ganga/Brahmaputra/Meghna/Barak	Ganga/Ghaghra	26.5334	82.6262
232	Tezpur	Brahmaputra	Assam	Sonitpur	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra	26.6156	92.7967
233	Tihar Khera	Ramganga	Uttar Pradesh	Bareilly	Ganga/Brahmaputra/Meghna/Barak	Ramganga	28.4164	79.2883
234	Tikarapara	Mahanadi	Odisha	Angul	Mahanadi	Mahanadi	20.5894	84.7833
235	Tilga	Sankh	Jharkhand	Simdega	Brahmani-Baitarni	Brahmani/Sankh	22.6233	84.4175
236	Tuini/pabar	Pabar	Uttarakhand	Dehradun	Ganga/Brahmaputra/Meghna/Barak	Ganga/Yamuna/Pabar	30.9603	77.8536
237	Udaipur	Tirap	Assam	Tinsukia	Ganga/Brahmaputra/Meghna/Barak	Brahmaputra /Tirap	27.3369	95.8517
238	V.S. Bridge	Ganga	Uttar Pradesh	Varanasi	Ganga/Brahmaputra/Meghna/Barak	Ganga	25.2552	83.0253
239	Varanavasi	Marudaiyar	Tamil Nadu	Ariyalur	Cauvery	Cauvery/Marudaiyar	11.0925	79.0850
240	Yennehole	Swarna	Karnataka	Dakshina Kannada	West Flowing rivers from Tadri to Kanyakumari	Swarna	13.2942	74.9806

**List of water quality monitoring stations where the water was found above the acceptable limit (BIS 10500:2012) in presence of more than one toxic metals during the study period.**

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
1	Agra (J.B.)	Yamuna	Ni, Pb	Uttar Pradesh	Agra (J.B)	Ganga/Yamuna	27.2039	78.0350
2	Agra (P.G.)	Yamuna	Ni, Cr, Pb	Uttar Pradesh	Agra (P.G)	Ganga/Yamuna	27.2542	78.0231
3	Ambarampalayam	Aliyar	Ni, Fe	Tamil Nadu	Coimbatore	Bharathapuzha/Kannadipuzha/ Aliyar	10.6303	76.9461
4	Ambari	Kaljani	Ni, Fe	West Bengal	Coochbehar	Kaljani	26.4164	89.5417
5	Ambgaon (Bagdi)	Chulband	Cr, Fe	Maharashtra	Bhandara	Godavari/Pranhita/Wainganga/ Chulband	20.7783	79.8513
6	Ankinghat	Ganga	Pb, Fe	Uttar Pradesh	Kanpur Nagar	Ganga	26.9347	80.0361
7	Ashti	Wainganga	Ni, Cr, Fe	Maharashtra	Gadchiroli	Godavari/Pranhita/Wainganga	19.6867	79.7839
8	Auraiya	Yamuna	Cr, Ni, Fe	Uttar Pradesh	Auraiya	Ganga/Yamuna	26.4272	79.4181
9	Ayodhya	Ghaghra	Ni, Fe	Uttar Pradesh	Faizabad	Ganga/Ghaghra	26.8136	82.2078
10	Badar Pur Ghat	Barak	Ni, Fe	Assam	Karimganj	Barak	24.8733	92.5167
11	Badlapur	Ulhas	Cu, Ni	Maharashtra	Thane	Ulhas	19.1622	73.2544
12	Balrampur	Rapti	Ni, Fe	Uttar Pradesh	Balrampur	Ganga/Ghaghra/Rapti	27.4500	82.2125
13	Bamni	Wardha	Ni, Fe, Cr	Maharashtra	Chandrapur	Godavari/Pranhita/Wardha	19.8139	79.3794
14	Bansi	Rapti	Cu, Ni, Fe	Uttar Pradesh	Siddarthnagar	Ganga/Ghaghra/Rapti	27.1833	82.9325
15	Bareilly	Ramganga	Ni, Fe, Cr	Uttar Pradesh	Bareilly	Ganga/Ramganga	28.2992	79.3667
16	Baridhi	Subarnarekha	Fe, Cu, Ni	Jharkhand	Purba Singhbhum	Subarnarekha	22.7994	86.2489
17	Basantpur	Mahanadi	Fe, Cr	Chattisgarh	Janjgir-champa	Mahanadi	21.7267	82.7881
18	Basti	Kwano	Fe, Ni	Uttar Pradesh	Basti	Ganga/Ghaghra/Kwano	26.7839	82.7131
19	Basti U/S	Kwano	Fe, Ni	Uttar Pradesh	Basti	Ganga/Ghaghra/Kwano	26.7974	82.7078
20	Bawapuram	Tungabhadra	Fe, Ni	Andhra Pradesh	Kurnool	Krishna/ Tungabhadra	15.8833	77.9572
21	Belkheri	Sher	Fe, Ni	Madhya Pradesh	Narsinghpur	Narmada/Sher	22.9278	79.3397
22	Berhampore	Bhagirathi	Pb, Fe	West Bengal	Murshidabad	Bhagirathi	24.0911	88.2431
23	Bhadrachalam	Godavari	As, Cd, Ni, Fe	Telangana	Khammam	Godavari	17.6681	80.8772
24	Bhalwara	Gaur	Fe, Pb	Madhya Pradesh	Jabalpur	Gaur	23.1147	79.9961



S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
25	Bhitaura	Ganga	Fe, Ni	Uttar Pradesh	Fatehpur	Ganga	26.0431	80.8542
26	Birdghat	Rapti	Ni, Fe	Uttar Pradesh	Gorakhpur	Ganga/Ghaghra/Rapti	26.7444	83.3400
27	Bokajan	Dhansari(South)	Cr, Fe	Assam	Karbi Anglong	Dhansiri(S)	26.0161	93.7872
28	Buxar	Ganga	Ni, Fe	Bihar	Buxar	Ganga	25.5769	83.9756
29	C.R.B.	Hasdeo	Cr, Ni	Chattisgarh	Bilaspur	Hasdeo	22.0244	82.6417
30	Champasari	Mahananda	Ni, Fe	West Bengal	Darjeeling	Ganga/Mahananda	26.7392	88.4228
31	Chandwada	Orsang	Fe, Ni	Gujarat	Vadodara	Narmada/Orsang	22.0500	73.4661
32	Chenimari	Buridehing	Pb, Fe	Assam	Dibrugarh	Buridehing	27.3114	94.8825
33	Chindnar	Indravati	Ni, Fe	Chattisgarh	Dantewara	Godavari/Indravati	19.0794	81.3011
34	Chopan	Sone	Cr, Fe, Ni, Pb	Uttar Pradesh	Sonbhadra	Ganga/Sone	24.5333	83.0500
35	Dabri	Ramganga	Fe, Ni	Uttar Pradesh	Shahjahanpur	Ganga/Ramganga	27.4958	79.6972
36	Delhi Rly Bridge	Yamuna	Ni, Cr, Fe	Delhi	North Delhi	Ganga/Yamuna	28.6625	77.2467
37	Deongaon Bridge	Bhima	Cd, Fe	Karnataka	Bijapur	Krishna/Bhima	17.1703	76.3283
38	DEOSUGUR	Krishna	Fe, Ni	Karnataka	Raichur	Krishna	16.3822	77.3572
39	Derol Bridge	Sabarmati	Fe, Ni	Gujarat	Sabarkantha	Sabarmati	23.5764	72.8069
40	Dhaneta	Bahgul	Fe, Ni	Uttar Pradesh	Bareilly	Ramganga / Bahgul	28.4231	79.8108
41	Dholabazar	Lohit	Fe, Ni	Assam	Tinsukia	Brahmaputra/Lohit	27.7900	95.6006
42	DIANA	Diana	Fe, Ni	West Bengal	Jalpaiguri	Brahmaputra/ Teesta/Diana	26.8614	89.0011
43	Dibrugarh	Brahmaputra	Fe, Ni	Assam	Dibrugarh	Brahmaputra	27.4989	94.8558
44	Dillighat	Desang	Fe, Ni	Assam	Dibrugarh	Desang	27.1400	95.3700
45	Dindori	Narmada	Fe, Pb	Madhya Pradesh	Dindori	Narmada	22.9478	81.0761
46	Durvesh	Wagh	Fe, Cu, Ni	Maharashtra	Thane	Damanganga/Wagh	19.7131	72.9300
47	Elginbridge	Ghaghra	Cr, Cu, Fe	Uttar Pradesh	Barabanki	Ganga/Ghaghra	27.0956	81.4839
48	Elunuthimangalam	Noyyal	Fe, Ni, Cd	Tamil Nadu	Erode	Cauvery/Noyyal	11.0317	77.8875
49	Englishbazar	Mahananda	Fe, Pb	West Bengal	Malda	Padma/Mahananda	25.0113	88.1519
50	Etawah	Yamuna	Ni, Fe	Uttar Pradesh	Etawah	Ganga/Yamuna	26.7500	78.9833
51	Faizabad U/S	Ghaghra	As, Fe	Uttar Pradesh	Faizabad	Ganga/Ghaghra	26.7786	82.0817
52	Farakka/(HR)	Feeder Canal	Pb, Fe	West bengal	Murshidabad	Feeder Canal	24.7953	87.9317

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
53	Gadat	Ambika	Fe, Ni	Gujarat	Palghar	Ambika	20.8581	72.9850
54	Galeta	Hindon	Ni, Fe	Uttar Pradesh	Meerut	Ganga/Yamuna/ Hindon	29.0756	77.4625
55	GANDLAPET	Peddavagu	Fe, Ni	Telangana	Nizamabad	Godavari/Peddavagu	18.8289	78.4367
56	Ganguwala	Bata	Fe, Ni	Himachal Pradesh	Sirmaur	Yamuna/Bata	30.4369	77.5786
57	Ganod	Bhadar	Fe, Ni	Gujarat	Rajkot	Bhadar	21.6647	70.1811
58	Garhmukteshwar	Ganga	Fe, Pb	Uttar Pradesh	Ghaziabad	Ganga	28.7667	78.1417
59	Gaya	Phalgu	Fe, Cr	Bihar	Gaya	Ganga/Phalgu	24.7717	85.0100
60	Ghat	Sarju	Fe, Ni	Uttarakhand	Pithoragarh	Ganga/Ghaghra/Sharda/Sarju	29.5000	80.1278
61	Ghatsila	Subarnarekha	Fe, Ni	Jharkhand	Purba Singhbhum	Subarnarekha	22.5806	86.4683
62	Ghazipur	Ganga	Ni, Cu, Fe	Uttar Pradesh	Ghazipur	Ganga	25.5697	83.5783
63	Ghugumari	Torsa	Cr, Fe	West Bengal	Cooch Behar	Brahmaputra/ Torsa	26.2878	89.4608
64	Gummanur	Ponnaiyar	Fe, Ni	Tamil Nadu	Krishnagiri	Ponnaiyar	12.5550	78.1386
65	Gumrabazar	Gumra	Fe, Ni	Assam	Cachar	Meghna/Surma/ Gumra	25.0119	92.5100
66	Hanskhali	Churni	Pb, Fe	West Bengal	Nadia	Bhagirathi/Churni	23.3578	88.6086
67	Harlahalli	Tungabhadra	Cr, Ni	Karnataka	Haveri	Krishna/Tungabhadra	14.8306	75.7228
68	Hivra	Wardha	Cr, Ni, Fe	Maharashtra	Wardha	Godavari/Pranhita/Wardha	20.5472	78.3247
69	Hoshangabad	Narmada	Cd, Fe, Pb	Madhya Pradesh	Hoshangabad	Narmada	22.7561	77.7328
70	Jagdulpur	Indravati	Cd, Fe, Ni	Chattisgarh	Bastar	Godavari/Indravati	19.1081	82.0228
71	Jamshedpur	Subarnarekha	Ni, Fe	Jharkhand	Purba Singhbhum	Subarnarekha	22.8156	86.2161
72	Jamsholaghat	Subarnarekha	Ni, Fe	Odisha	Mayurbhanj	Subarnarekha	22.2197	86.7167
73	Jaraikela	Koel	Cu, Fe	Odisha	Sundergarh	Brahmani/Koel	22.3217	85.1047
74	Jenapur	Kagna	Cr, Ni, Fe	Odisha	Jajpur	Krishna/Bhima/ Kagna	20.8897	86.0142
75	Jhanjharpur	Kamla-Balan	Fe, Ni	Bihar	Madhubani	Ganga/Kosi/Kamla-Balan	26.2266	86.2561
76	Kabirganj	Sarda	Ni, Fe	Uttar Pradesh	Pilibhit	Sarda	28.5000	80.3792
77	Kailash Mandir Benpur U/S of Agra	Yamuna	Ni, Fe	Uttar Pradesh	Agra	Ganga/Yamuna	27.2361	77.9306
78	KALPI	Yamuna	Ni, Fe	Uttar Pradesh	Jalaun	Ganga/Yamuna	26.2000	79.7000
79	Kampur	Kopili	Fe, Ni	Assam	Nagaon	Kopili	26.1531	92.6564

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
80	Kannauj	Kali	Ni, Fe	Uttar Pradesh	Kannauj	Kali	27.0127	79.9841
81	Kanpur	Ganga	Fe, Ni	Uttar Pradesh	Kanpur Nagar	Ganga	26.4694	80.3764
82	Karathodu	Kadalundi	Fe, Cr	Kerala	Malappuram	Kadalundi	11.0569	76.0394
83	Karnal	Yamuna	Pb, Ni	Haryana	Karnal	Ganga/Yamuna	29.6956	77.1428
84	Kasganj	Kali	Ni, Fe	Uttar Pradesh	Etah	Kali	27.7879	78.6253
85	Katwa	Bhagirathi	Pb, Fe	West Bengal	Burdwan	Bhagirathi	23.6436	88.1478
86	Keesara	Munneru	Cd, Ni, Fe	Andhra Pradesh	Krishna	Krishna/Munneru	16.7156	80.3164
87	Keolari	Wainganga	Ni, Fe	Madhya Pradesh	Seoni	Godavari/Pranhita/Wainganga	22.3819	79.9000
88	Kesinga	Tel	Ni, Fe	Odisha	Kalahandi	Mahanadi/Tel	20.2039	83.2231
89	KHANITAR	Teesta	Cr, Fe	Sikkim	East Sikkim (Gangtok)	Brahmaputra/ Teesta	27.1778	88.5133
90	Khanpur	Mahi	Ni, Fe	Gujarat	Anand	Mahi	22.5347	73.1408
91	Kharkhana	Myntdu	Fe, Ni	Meghalaya	West Jaintia Hills	Meghna/Myntdu	25.158333	92.214444
92	Koelwar	Sone	Fe, Cr	Bihar	Bhojpur	Ganga/Sone	25.5714	84.7947
93	Kogaon	Kundi	Ni, Fe	Madhya Pradesh	Khargone	Narmada/Kundi	22.1014	75.6842
94	Kokiwada	Pench	Ni, Fe	Madhya Pradesh	Chindawara	Godavari/Pranhita/Wainganga/Pench	21.8977	79.2344
95	Konta	Sabari	Ni, Fe	Chattisgarh	Dantewara	Godavari/Sabari	17.7989	81.3928
96	KOPERGAON	Godavari	Ni, Fe	Maharashtra	Ahmednagar	Godavari	19.8783	74.4819
97	Kulpatanga	Kharkai	Cr, Fe	Jharkhand	Purba Singhbhum	Kharkai	22.7658	86.1591
98	Kumhari	Wainganga	Ni, Fe	Madhya Pradesh	Balaghat	Godavari/Pranhita/Wainganga	21.8842	80.1750
99	Lalpur	Sengar	Ni, Fe	Uttar Pradesh	Kanpur Dehat	Ganga/Yamuna/Sengar	26.2714	79.9500
100	Lodhikheda	Jam	Ni, Fe	Madhya Pradesh	Chindawara	Godavari/Pranhita /Wardha/Jam	21.5792	78.8655
101	Lowara	Shetruni	Cr, Pb, Ni, Fe	Gujarat	Bhavnagar	Shetruni	21.4439	71.5603
102	Lucknow	Gomti	Cr, Ni, Fe	Uttar Pradesh	Lucknow	Ganga/Gomti	26.8611	80.9464
103	Lupungdih	Subarnarekha	Ni, Fe	Odisha	Saraikela khar-sawan	Subarnarekha	22.3497	87.4967
104	M.B.P.L.	Hasdeo	Cr, Ni	Chattisgarh	Bilaspur	Hasdeo	22.0131	82.6480
105	Madamon	Pamba	As, Fe	Kerala	pathanamthitta	Pamba	9.3639	76.8378
106	Madhira	Wyra	Ni, Fe	Telangana	Khamman	Krishna/Munneru/Wyra	16.9181	80.3558
107	Mahuwa	Purna	Fe, Ni	Gujarat	Surat	Purna	21.0158	73.1356

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
108	Maighat	Gomti	Fe, Ni	Uttar Pradesh	Jaunpur	Ganga/Gomti	25.6436	82.8467
109	Manakkad	Thodupuzha	Fe, Pb	Kerala	idukki	Thodupuzha	9.9088	76.6961
110	Mankara	Bharathapuzha	Cr, Ni, Fe	Kerala	Palakkad	Bharathapuzha	10.7611	76.4861
111	Manot	Narmada	Fe, Pb	Madhya Pradesh	Mandla	Narmada	22.7358	80.5131
112	Mantralayam	Tungabhadra	Ni, Fe	Andhra Pradesh	Kurnool	Krishna/Tungabhadra	15.9483	77.4264
113	Mataji	Mahi	Ni, Fe	Madhya Pradesh	Ratlam	Mahi	23.3497	74.7178
114	Mathanguri	Beki	Fe, Ni	Assam	Barpeta	Beki	26.7819	90.9572
115	Mathura	Yamuna	Cr, Ni, Fe	Uttar Pradesh		Ganga/Yamuna	27.4417	77.7150
116	Miao	Noa-dehing	Pb, Fe	Arunachal Pradesh	Changlang	Noa-dehing	27.4972	96.2187
117	Mirzapur	Ganga	As, Fe	Uttar Pradesh	Mirzapur	Ganga	25.1561	82.5303
118	MOHANA	Yamuna	Ni, Cr	Haryana	Faridabad	Ganga/Yamuna	28.2242	77.4569
119	Mohgaon	Burhner	As, Fe	Madhya Pradesh	Mandla	Narmada/Burhner	22.7658	80.6233
120	Moradabad	Ramganga	As, Cu, Ni, Fe	Uttar Pradesh	Moradabad	Ganga/Ramganga	28.8267	78.7981
121	Motinaroli	Kim	Fe, Ni	Gujarat	Surat	Kim(Indepent River)	21.4044	72.9625
122	Mungoli	Penganga	Fe, Ni	Maharashtra	Chandrapur	Godavari/Pranhita/Wardha/Penganga	19.8650	79.1261
123	Muthankera	Kabini	Fe, Pb	Kerala	Wynad	Cauvery/Kabini	11.8083	76.0839
124	Naharkatia	Buridehing	Fe, Ni	Assam	Dibrugarh	Buridehing	27.3003	95.3306
125	Nanded	Godavari	Fe, Ni	Maharashtra	Nanded	Godavari	19.1417	77.3203
126	Nandgaon	Wunna	Ni, Fe	Maharashtra	Wardha	Godavari/Pranhita/Wardha/Wunna	20.5255	78.8088
127	Nandira	Brahmani	Ni, Cr, Fe	Odisha	Angul	Brahmani	20.8879	85.2622
128	Naugaon	Yamuna	Pb, Fe	Uttarakhand	Uttarakashi	Ganga/Yamuna	30.7917	78.1353
129	Nellipally	Kallada	Ni, Pb, Fe	Kerala	Kollam	Kallada	9.0279	76.925000
130	Nowrangpur	Indravati	Ni, Fe	Odisha	Nowrangpur	Godavari/Indravati	19.1975	82.5119
131	P.G.Bridge	Penganga	Ni, Fe	Maharashtra	Yavatmal	Godavari/Pranhita/Wardha/Penganga	19.8175	78.5778
132	P.I.L.	Hasdeo	Cr, Ni	Chattisgarh	Janjgir-Champa	Hasdeo	21.9631	82.6812
133	Pachauli	Sind	Cr, Ni	Madhya Pradesh	Shivpuri	Ganga/Yamuna/Sind	25.1789	77.6869
134	Paderdibadi	Mahi	Ni, Fe	Rajasthan	Dungarpur	Mahi	23.7594	74.1333
135	Paleru Bridge	Paleru	Ni, Fe	Andhra Pradesh	Krishna	Krishna/Paleru	16.9489	80.0478
136	Paliakalan	Sharda	Ni, Fe	Uttar Pradesh	Lakhimpur Khiri	Ganga/Ghaghra/Sharda	28.3833	80.5500

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
137	Panbari	Manas	Ni, Fe	Assam	Barpeta	Manas	26.5917	90.8290
138	Pancharatna	Brahmaputra	Ni, Fe	Assam	Goalpara	Brahmaputra	26.2094	90.5533
139	Panposh	Brahmani	Cu, Fe	Odisha	Sundergarh	Brahmani	22.2772	84.8519
140	PATACHARKUCHI	Kalodiya	Ni, Fe	Assam	Barpeta	Kalodiya	26.5053	91.2364
141	Patansaongi	Chandrabhaga	Ni, Fe	Maharashtra	Nagpur	Godavari/Pranhita/Wainganga/Kanhan/ Chandrabhaga	21.3211	79.0247
142	Pathagudem	Indravati	Ni, Fe	Chattisgarh	Dantewara	Godavari/Indravati	18.8525	80.3494
143	Pingalwada	Dhadhar	Fe, Ni	Gujarat	Vadodara	Dhadhar(Independent river)	22.1108	73.0786
144	Polavaram	Godavari	Ni, Fe	Andhra Pradesh	West Godavari	Godavari	17.2519	81.6564
145	Purna	Purna	Ni, Fe	Maharashtra	Parbhani	Godavari/Purna	19.1758	77.0131
146	Raibareli	Sai	Fe, Cu	Uttar Pradesh	Raebareli	Ganga/Gomti/Sai	26.1986	81.2511
147	Ramakona	Kanhan	Ni, Fe	Madhya Pradesh	Chindawara	Godavari/Pranhita/Kanhan	21.7189	78.8242
148	RAMDIA	Kolong	Ni, Fe	Assam	Kamrup	Brahmaputra/Kolong	26.2556	91.4726
149	Rangeli	som	Ni, Fe	Rajasthan	Dungarpur	Mahi/som	23.8728	74.2236
150	RANGPO	Rangpochu	Fe, Ni	Sikkim	East Sikkim (Gangtok)	Brahmaputra/ Teesta/Rangpochu	27.1722	88.5297
151	Reguali	Ghaghra	Ni, Fe	Uttar Pradesh	Gorakhpur	Ganga/Ghaghra/	26.7592	83.2906
152	Renukaji	Giri	Ni, Fe	Himachal Pradesh	Sirmaur	Yamuna/Giri	30.6044	77.4411
153	Rishikesh	Ganga	Ni, Fe	Uttarakhand	Dehradun	Ganga	30.1008	78.3039
154	RSP-I	Brahmani	Fe, Cr	Odisha	Sundergarh	Brahmani	22.2108	84.8733
155	RSP-II	Brahmani	Fe, Cr	Odisha	Sundergarh	Brahmani	22.3522	84.4592
156	RSP-III	Brahmani	Fe, Cr	Odisha	Sundergarh	Brahmani	22.3522	84.4592
157	Sangam (Kinnerasani)	Kinnerasani	Cr, Ni	Telangana	Khammam	Godavari/ Kinnerasani	17.5908	80.8190
158	SANKOSH LRP	Sankosh	Ni, Fe	West Bengal	Cooch Behar	Brahmaputra/Sankosh	26.4578	89.8581
159	Satna	Tons	Cu, Fe	Madhya Pradesh	Satna	Ganga/Tons	24.5333	80.8883
160	SATPULI D/S	Nayar	Ni, Fe	Uttrakhand	Pauri	Nayar	29.9375	78.7022
161	Shahjahanpur	Khannaut	Cu, Fe	Uttar Pradesh	Shahjahanpur	Ganga / Deoha / Khannaut	27.8500	79.9086
162	Shastri Bridge	Ganga	Fe, Ni	Uttar Pradesh	Prayagraj	Ganga	25.4366	81.8892
163	Sitapur	Sarayan	Fe, Pb	Uttar Pradesh	Sitapur	Gomti / Sarayan	27.5719	80.6856
164	Sivasagar	Dikhow	Cu, Fe	Assam	Sivasagar		26.9819	94.5792

S.No.	Name of Site	River	Metals which exceed permissible limits	State	District	River/tributary	Latitude	Longitude
						Dikhow		
165	Sonapur	Digaru	Cr, Fe	Assam	Kamrup (Rural)	Digaru	26.1204	91.9784
166	Srinagar	Alaknanda	Fe, Ni	Uttarakhand	Pauri Garhwal	Ganga/Alaknanda	30.2258	78.7756
167	Syohara	Ramganga	Cr, Fe	Uttar Pradesh	Bijnaur	Ramganga	29.3267	78.7597
168	T.Ramapuram	Hagari	Ni, Fe	Karnataka	Bellary	Krishna/Tungabhadra/Hagari	15.6611	76.9628
169	Tekra	Pranhita	Ni, Fe	Maharashtra	Gadchiroli	Godavari/Pranhita/Pranhita	18.9783	79.9469
170	Tezu	Lohit	Fe, Ni	Arunachal Pradesh	Lohit	Lohit	27.9108	96.1706
171	Thengumarahada	Moyar	Cd, Ni	Tamil Nadu	Nilgiris	Cauvery/Bhavani/Moyar	11.5728	76.9192
172	Therriaghat	Umsohrynkiev	Cr, Fe	Meghalaya	East Khasi Hills	Umsohrynkiev	25.1800	91.7678
173	Thottathinkadavu	Iruvazhinjipuzha	Cr, Fe	Kerala	Kozhikode	Iruvazhinjipuzha	11.3620	76.0019
174	Thumpamon	Achankovil	Ni, Fe	Kerala	Pathanamthitta	Pampa/Achankovil	9.2250	76.7147
175	Todarpur	sukheta	Fe, Cd	Uttar Pradesh	Hardoi	Ganga/Deoha/sukheta	27.5846	79.9952
176	Tufanganj	Raidak-i	Ni, Fe	West Bengal	Cooch Behar	Brahmaputra/Torsa/Raidak-i	26.3089	89.6756
177	Tuini/tons	Tons	Cd, Pb, Fe	Uttarakhand	Dehradun	Ganga/Yamuna/Tons	30.9397	77.8467
178	Turtipar	Ghaghra	Ni, Fe	Uttar Pradesh	Ballia	Ganga/Ghaghra	26.1667	83.8636
179	Vandiperiyar	Periyar	Cu, Ni, Fe	Kerala	Idukki	Periyar	9.5733	77.0908
180	Vapi	Damanganga	Cd, Ni, Fe	Gujarat	Valsad	Damanganga	20.3389	72.9117
181	Varanasi	Ganga	Fe, Pb	Uttar Pradesh	Varanasi	Ganga	25.3236	83.0375
182	Vautha	Sabarmati	Ni, Fe	Gujarat	Kheda	Sabarmati	22.6503	72.5331
183	Vijayawada	Krishna	Ni, Fe	Andhra Pradesh	Krishna	Krishna	16.5011	80.6250
184	Wairagarh	Khobragarhi	Ni, Fe	Maharashtra	Gadchiroli	Godavari/Pranhita/Wainganga/Khobragarhi	20.4219	80.0917
185	Yadgir	Bhima	Ni, Fe	Karnataka	Gulbarga	Krishna/Bhima	16.7375	77.1253
186	Yashwant nagar	Giri	Pb, Ni, Cu	Himachal Pradesh	Simaur	Ganga/Yamuna/Giri	30.8867	77.2061
187	Yelli	Godavari	Cr, Fe	Maharashtra	Nanded	Godavari	19.0439	77.4556



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